

=> FILE REG

FILE 'REGISTRY' ENTERED AT 14:51:33 ON 16 JUL 2009
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=> D HIS

FILE 'REGISTRY' ENTERED AT 09:59:05 ON 16 JUL 2009

	E EPIFLUOROHYDRIN/CN
L1	1 S E3
	E EPICHLOROHYDRIN/CN
L2	1 S E3
	E EPIBROMOHYDRIN/CN
L3	1 S E3
	E EPIIODOHYDRIN/CN
L4	1 S E3
	E BENZYLAMINE/CN
L5	1 S E3
	E BIS(2-AMINOETHYL)ETHER/CN

FILE 'HCAPLUS' ENTERED AT 10:05:27 ON 16 JUL 2009

L6	28717 S WOLF ?/AU
L7	265 S HUFFER ?/AU
L8	5407 S DECKER ?/AU
L9	436 S SCHERR ?/AU
L10	2757 S REESE ?/AU
L11	0 S L6 AND L7 AND L8 AND L9 AND L10
L12	1 S L6 AND L7
L13	16 S L6 AND L8
L14	4 S L6 AND L9
L15	8 S L6 AND L10
L16	0 S L7 AND L8
L17	0 S L7 AND L9
L18	1 S L7 AND L10
L19	3 S L8 AND L9
L20	3 S L8 AND L10
L21	11 S L9 AND L10
L22	50748 S LEATHER?
L23	7 S (L12-L21) AND L22
L24	19381 S L2
L25	0 S (L12-L21) AND L24
	SEL L23 1-7 RN

FILE 'REGISTRY' ENTERED AT 10:09:51 ON 16 JUL 2009

L26 28 S E1-E28
 L27 9 S L26 AND N/ELS
 E ETHER, BIS(2-AMINOETHYL)/CN

 FILE 'HCA' ENTERED AT 10:14:55 ON 16 JUL 2009
 L28 220 S (BIS(3A)AMINOETHYL(3A)ETHER#)/IT

 FILE 'REGISTRY' ENTERED AT 10:17:03 ON 16 JUL 2009
 L29 1 S 2752-17-2
 E N,N-DIMETHYLETHYLENEDIAMINE/CN
 L30 1 S E3
 E PIPERAZINE/CN
 L31 1 S E3
 E ETHYLENEDIAMINE/CN
 L32 1 S E3
 E N,N-DIMETHYLAMINOPROPYLAMINE/CN
 E N,N-DIMETHYLAMINOPROPYL AMINE/CN

 FILE 'HCA' ENTERED AT 10:23:12 ON 16 JUL 2009
 L33 794 S DIMETHYLAMINOPROPYLAMINE#/IT

 FILE 'REGISTRY' ENTERED AT 10:24:38 ON 16 JUL 2009
 L34 1 S 109-55-7

 FILE 'REGISTRY' ENTERED AT 10:26:19 ON 16 JUL 2009
 E METHYLBIS(3-AMINOPROPYL)AMINE/CN
 L35 1 S E3
 L36 1 S 841312-89-8
 E METHYLBIS(2-AMINOETHYL)AMINE/CN
 E 1,2-ETHANEDIAMINE, N1-(2-AMINOETHYL)-N1-METHYL-/CN
 L37 1 S E3
 E N-(2-AMINOETHYLPIPERAZINE)/CN
 E N-(2-AMINOETHYL)PIPERAZINE/CN
 L38 1 S E3
 E N-AMINOETHYLPIPERAZINE/CN
 E N-AMINOETHYL PIPERAZINE/CN
 E PIPERAZINE, N-AMINOETHYL-/CN

 FILE 'HCA' ENTERED AT 10:34:01 ON 16 JUL 2009
 L39 346 S AMINOETHYLPIPERAZINE#/IT
 L40 26077 S EPICHLOROHYDRIN#/IT
 L41 13 S L39 AND L40

 FILE 'REGISTRY' ENTERED AT 10:39:43 ON 16 JUL 2009
 L42 1 S 140-31-8
 L43 1 S L42 AND L38
 E N-(1-AMINOETHYL)PIPERAZINE/CN

E PIPERAZINE, N-(1-AMINOETHYL)/CN

FILE 'LREGISTRY' ENTERED AT 10:44:53 ON 16 JUL 2009

L44 STR
L45 0 S L44
L46 0 S L44 FUL

FILE 'REGISTRY' ENTERED AT 10:46:07 ON 16 JUL 2009

L47 1 S L44
L48 1 S 141656-32-8
E DIETHYLENETRIAMINE/CN
L49 1 S E3
E DIPROPYLENETRIAMINE/CN
L50 3 S E3
E TRIETHYLENETETRAMINE/CN
L51 1 S E3
E 4,7-DIMETHYLTRIETHYLENETETRAMINE/CN
L52 1 S E4
L53 1 S 7382-58-3
E DIMETHYLAMINOPROPYLAMINE/CN
L54 1 S E4
L55 1 S 109-55-7
E TETRAETHYLENEPENTAMINE/CN
L56 1 S E3
L57 4 S L1-L4
SEL L57 1-4 RN
EDIT E1-E4 /BI /CRN
L58 28549 S E1-E4
SEL L5 1 RN
EDIT E5 /BI /CRN
L59 1606 S E5
SEL L29 1 RN
EDIT E6 /BI /CRN
L60 70 S E6
SEL L30 RN
EDIT E7 /BI /CRN
L61 118 S E7
SEL L31 1 RN
EDIT E8 /BI /CRN
L62 3789 S E8
SEL L32 RN
EDIT E9 /BI /CRN
L63 8769 S E9
SEL L34 RN
EDIT E10 /BI /CRN
L64 577 S E10
SEL L35 RN

		EDIT E11 /BI /CRN
L65	351	S E11
		SEL L37 RN
		EDIT E12 /BI /CRN
L66	10	S E12
		SEL L38 RN
		EDIT E13 /BI /CRN
L67	468	S E13
		SEL L48 RN
		EDIT E14 /BI /CRN
L68	2	S E14
		SEL L49 RN
		EDIT E15 /BI /CRN
L69	4255	S E15
		SEL L50 RN
		EDIT E16-E18 /BI /CRN
L70	368	S E16-E18
		SEL L51 RN
		EDIT E19 /BI /CRN
L71	1894	S E19
		SEL L53 RN
		EDIT E20 /BI /CRN
L72	2	S E20
		SEL L55 RN
		EDIT E21 /BI /CRN
L73	577	S E21
		SEL L56 RN
		EDIT E22 /BI /CRN
L74	890	S E22
L75	0	S L59 AND L60
L76	0	S L59 AND L61
L77	1	S L59 AND L62
L78	0	S L59 AND L63
L79	2	S L59 AND L64
L80	0	S L59 AND L65
L81	0	S L59 AND L66
L82	0	S L59 AND L67
L83	0	S L59 AND L68
L84	0	S L59 AND L69
L85	0	S L59 AND L70
L86	0	S L59 AND L71
L87	0	S L59 AND L72
L88	2	S L59 AND L73
L89	0	S L59 AND L74
L90	0	S L60 AND L61
L91	0	S L60 AND L62
L92	1	S L60 AND L63

L93	0	S	L60	AND	L64
L94	0	S	L60	AND	L65
L95	0	S	L60	AND	L66
L96	0	S	L60	AND	L67
L97	0	S	L60	AND	L68
L98	0	S	L60	AND	L69
L99	0	S	L60	AND	L70
L100	0	S	L60	AND	L71
L101	0	S	L60	AND	L72
L102	0	S	L60	AND	L73
L103	0	S	L60	AND	L74
L104	0	S	L61	AND	L62
L105	5	S	L61	AND	L63
L106	0	S	L61	AND	L64
L107	0	S	L61	AND	L65
L108	0	S	L61	AND	L66
L109	0	S	L61	AND	L67
L110	0	S	L61	AND	L68
L111	0	S	L61	AND	L69
L112	0	S	L61	AND	L70
L113	1	S	L61	AND	L71
L114	0	S	L61	AND	L72
L115	0	S	L61	AND	L73
L116	0	S	L61	AND	L74
L117	87	S	L62	AND	L63
L118	3	S	L62	AND	L64
L119	1	S	L62	AND	L65
L120	0	S	L62	AND	L66
L121	13	S	L62	AND	L67
L122	0	S	L62	AND	L68
L123	55	S	L62	AND	L69
L124	1	S	L62	AND	L70
L125	7	S	L62	AND	L71
L126	0	S	L62	AND	L72
L127	3	S	L62	AND	L73
L128	3	S	L62	AND	L74
L129	5	S	L63	AND	L64
L130	20	S	L63	AND	L65
L131	0	S	L63	AND	L66
L132	12	S	L63	AND	L67
L133	0	S	L63	AND	L68
L134	268	S	L63	AND	L69
L135	10	S	L63	AND	L70
L136	66	S	L63	AND	L71
L137	0	S	L63	AND	L72
L138	5	S	L63	AND	L73
L139	14	S	L63	AND	L74

L140	15	S	L64	AND	L65
L141	0	S	L64	AND	L66
L142	0	S	L64	AND	L67
L143	0	S	L64	AND	L68
L144	58	S	L64	AND	L69
L145	2	S	L64	AND	L70
L146	3	S	L64	AND	L71
L147	0	S	L64	AND	L72
L148	577	S	L64	AND	L73
L149	7	S	L64	AND	L74
L150	0	S	L65	AND	L66
L151	11	S	L65	AND	L67
L152	0	S	L65	AND	L68
L153	18	S	L65	AND	L69
L154	1	S	L65	AND	L70
L155	2	S	L65	AND	L71
L156	0	S	L65	AND	L72
L157	15	S	L65	AND	L73
L158	3	S	L65	AND	L74
L159	0	S	L66	AND	L67
L160	0	S	L66	AND	L68
L161	0	S	L66	AND	L69
L162	0	S	L66	AND	L70
L163	0	S	L66	AND	L71
L164	0	S	L66	AND	L72
L165	0	S	L66	AND	L73
L166	0	S	L66	AND	L74
L167	0	S	L67	AND	L68
L168	21	S	L67	AND	L69
L169	0	S	L67	AND	L70
L170	18	S	L67	AND	L71
L171	0	S	L67	AND	L72
L172	0	S	L67	AND	L73
L173	5	S	L67	AND	L74
L174	0	S	L68	AND	L69
L175	0	S	L68	AND	L70
L176	0	S	L68	AND	L71
L177	0	S	L68	AND	L72
L178	0	S	L68	AND	L73
L179	0	S	L68	AND	L74
L180	16	S	L69	AND	L70
L181	144	S	L69	AND	L71
L182	0	S	L69	AND	L72
L183	58	S	L69	AND	L73
L184	39	S	L69	AND	L74
L185	3	S	L70	AND	L71
L186	0	S	L70	AND	L72

L187 2 S L70 AND L73
 L188 0 S L70 AND L74
 L189 0 S L71 AND L72
 L190 3 S L71 AND L73
 L191 39 S L71 AND L74
 L192 0 S L72 AND L73
 L193 0 S L72 AND L74
 L194 7 S L73 AND L74
 L195 147 S L58 AND (L75-L147 OR L149-L194)
 SAV L195 HAM375A/A
 L196 9 S L195 AND 3/NC
 L197 1 S L196 AND L26

FILE 'HCA' ENTERED AT 13:17:51 ON 16 JUL 2009

L198 2 S L197
 L199 9 S L196
 L200 18908 S RACT/RL (L) L5
 L201 280 S RACT/RL (L) L29
 L202 3628 S RACT/RL (L) L30
 L203 6074 S RACT/RL (L) L31
 L204 13494 S RACT/RL (L) L32
 L205 2918 S RACT/RL (L) L34
 L206 393 S RACT/RL (L) L35
 L207 120 S RACT/RL (L) L37
 L208 595 S RACT/RL (L) L38
 L209 0 S RACT/RL (L) L48
 L210 3153 S RACT/RL (L) L49
 L211 798 S RACT/RL (L) L50
 L212 1524 S RACT/RL (L) L51
 L213 17 S RACT/RL (L) L53
 L214 710 S RACT/RL (L) L56
 L215 1600 S L200 AND (L201-L214)
 L216 96 S L201 AND (L202-L214)
 L217 1309 S L202 AND (L203-L214)
 L218 733 S L203 AND (L204-L214)
 L219 1169 S L204 AND (L205-L214)
 L220 199 S L205 AND (L206-L214)
 L221 169 S L206 AND (L207-L214)
 L222 37 S L207 AND (L208-L214)
 L223 113 S L208 AND (L209-L214)
 L224 0 S L209 AND (L210-L214)
 L225 866 S L210 AND (L211-L214)
 L226 120 S L211 AND (L212-L214)
 L227 329 S L212 AND (L213 OR L214)
 L228 0 S L213 AND L214
 L229 10121 S (L1 OR L2 OR L3 OR L4) (L) RACT/RL
 L230 630 S L229 AND (L200-L228)

L231 140279 S ALKYLAT?
L232 QUE ACID? OR PH
L233 48974 S LEATHER?
E FABRIC FINISHING/CV
L234 3266 S E3
L235 84 S L230 AND L231
L236 49 S L235 AND L232
L237 0 S L230 AND L233
L238 0 S L230 AND L234

FILE 'LCA' ENTERED AT 14:36:40 ON 16 JUL 2009

L239 2717 S (FABRIC? OR TEXTILE? OR CLOTH? OR GARMENT? OR YARN? OR
L240 2425 S (FIBER? OR FIBR? OR FILAMENT? OR THREAD? OR STRAND? OR
L241 16426 S (TREAT? OR PRETREAT? OR CONDITION? OR PRECONDITION? OR
L242 330 S (L239 OR L240) (2A) (FINISH? OR L241)

FILE 'HCA' ENTERED AT 14:37:56 ON 16 JUL 2009

L243 233126 S L242
L244 14 S L230 AND L243
L245 0 S L244 AND L236
L246 0 S L236 AND 40/SC,SX
L247 13 S L230 AND 40/SC,SX
L248 3165 S CATIONIZ? OR CATIONIS?

FILE 'REGISTRY' ENTERED AT 14:45:29 ON 16 JUL 2009

E FORMIC ACID/CN
L249 1 S E3
E HYDROCHLORIC ACID/CN
L250 1 S E3

FILE 'HCA' ENTERED AT 14:46:24 ON 16 JUL 2009

L251 86782 S L249 OR FORMIC#(A)ACID# OR HCOOH OR HCO2H
L252 676807 S L250 OR (HYDROCHLORIC# OR MURIATIC#) (A)ACID# OR HCL
L253 0 S L235 AND L251
L254 12 S L235 AND L252
L255 7 S L230 AND L251
L256 1 S L230 AND L248
L257 9 S L198 OR L199
L258 9 S 1808-2004/PY,PRY,AY AND L257
L259 38 S (L244 OR L247 OR L254 OR L255 OR L256) NOT L258
L260 40 S L236 NOT (L258 OR L259)
L261 31 S 1808-2004/PY,PRY,AY AND L259
L262 34 S 1808-2004/PY,PRY,AY AND L260
L263 40 S L235 NOT (L258 OR L261 OR L262)
L264 28 S 1808-2004/PY,PRY,AY AND L263
L265 64 S L230 AND (35 OR 36 OR 37 OR 38)/SC,SX
L266 57 S L265 NOT (L258 OR L261 OR L262 OR L264)

L267 39 S 1808-2004/PY,PRY,AY AND L266
 L268 2179 S ?EPICHLOROHYDRINAMIN? OR ?EPICHLOROHYDRIN(2A) (AMINE# OR
 L269 3 S L267 AND L268
 L270 0 S L264 AND L268
 L271 103 S L229 AND (L215-L228)
 L272 39 S L271 AND (L231 OR L233 OR L234 OR L243 OR 40/SC,SX OR L
 L273 QUE POLYM? OR COPOLYM? OR TERPOLYM? OR RESIN? OR GUM#
 SAV L271 HAM375/A
 L274 30 S L271 AND L273
 L275 53 S (L272 OR L274) NOT L258
 L276 35 S 1808-2004/PY,PRY,AY AND L275

=> FILE HCA

FILE 'HCA' ENTERED AT 14:51:47 ON 16 JUL 2009

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=> D L258 1-9 BIB ABS HITSTR HITRN RE

L258 ANSWER 1 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 144:53259 HCA Full-text

TI Pigment coated paper base and printing paper prepared thereby

IN Naito, Jun

PA Fuji Photo Film B.V., Neth.

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005118953	A1	20051215	WO 2005-NL403	20050603

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
 CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
 GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,
 KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
 MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,

SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA,
 UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,
 NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
 GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1766132 A1 20070328 EP 2005-749172

200506
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R: DE, FR, GB, NL
 JP 2008501870 T 20080124 JP 2007-514957

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US 20070148377 A1 20070628 US 2006-564525

200611
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PRAI EP 2004-76658 A 20040603 <--
 WO 2005-NL403 W 20050603

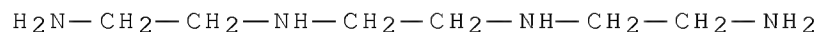
AB A pigment coated paper base is composed of a paper base and a water-based pigmented hydrophilic coating contg. an alkyl ketene dimer and an epoxidized fatty acid amide as sizing agent, and the coating comprises pigment selected from CaCO₃, TiO₂, BaSO₄, clay, magnesium-aluminum silicate, and styrene-acrylic copolymer, while the binder is selected from styrene-butadiene rubber, Me methacrylate-butadiene rubber, polyacrylate rubber, styrene-acrylic rubber, polyvinyl alc., polysaccharides, and starch. Printing paper comprising the above pigment coated paper and polymer layers made from polyethylene, polypropylene, or polymethyl methacrylate, is also provided. Thus, paper base was prepd. using epoxidized fatty acid amide and alkyl ketene dimer as internal sizing agent and coated with CaCO₃, and then melt co-extrusion coated with a coating comprising LDPE, LLDPE, and TiO₂ on one side, and coated with a compn. contg. LDPE and HDPE on the backside.

IT 871245-48-6D, Diethylenetriamine-epichlorohydrin-triethylenetetramine copolymer, reaction products with behenic acid (pigment coated paper base for printing paper)

RN 871245-48-6 HCA

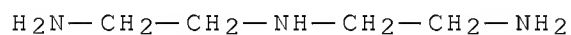
CN 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with N-(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane (9CI) (CA INDEX NAME)

CRN 112-24-3
CMF C6 H18 N4



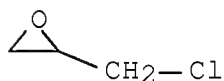
CM 2

CRN 111-40-0
CMF C4 H13 N3



CM 3

CRN 106-89-8
CMF C3 H5 Cl O



IT 871245-48-6D, Diethylenetriamine-epichlorohydrin-triethylenetetramine copolymer, reaction products with behenic acid (pigment coated paper base for printing paper)

RE

- (1) Fuji Photo Film B V; EP 0952483 A 1999 HCA
- (2) Kerkhoff; US 4808267 A 1989 HCA
- (3) Tamagawa; US 5474856 A 1995 HCA
- (4) Uno; US 4994357 A 1991 HCA

L258 ANSWER 2 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 142:263510 HCA Full-text

TI Surface treatment of semifinished leather with cationic or amphoteric polymers

IN Wolf, Gerhard; Hueffer, Stephan; Reese, Oliver; Decker, Juergen; Igl, Georg; Schroeder, Stefan; Scherr, Guenter

PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	
PI	WO 2005017210	A1	20050224	WO 2004-EP8607	200407 30
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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10336453	A1	20050303	DE 2003-10336453	200308 06
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	EP 1651782	A1	20060503	EP 2004-763684	200407 30
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	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
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	BR 2004013247	A	20061003	BR 2004-13247	200407 30
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	US 20070266501	A1	20071122	US 2006-566967	200602 02
				<--	

PRAI DE 2003-10336453 A 20030806 <--
WO 2004-EP8607 W 20040730 <--

OS MARPAT 142:263510

AB The surface of semifinished leather is treated with a cationic or amphoteric aq. treating agent, e.g., an amine-epichlorohydrin copolymer by roll coating, roller application, and/or spraying and the leather is then treated with an anionic agent, e.g., a dye, fatliquoring agent or after-tanning agent, in a drum. The procedure serves to improve leather fastness, to produce 2-color effect on leather, to reduce dye consumption, etc.

IT 841312-89-8P, Benzylamine-N,N-dimethyl-1,3-propanediamine-Epichlorohydrin copolymer

(treatment of semifinished leather surfaces with cationic or amphoteric polymers)

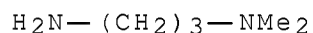
RN 841312-89-8 HCA

CN 1,3-Propanediamine, N,N-dimethyl-, polymer with benzenemethanamine and (chloromethyl)oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 109-55-7

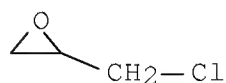
CMF C5 H14 N2



CM 2

CRN 106-89-8

CMF C3 H5 Cl O



CM 3

CRN 100-46-9

CMF C7 H9 N

H₂N—CH₂—Ph

IT 841312-89-8P, Benzylamine-N,N-dimethyl-1,3-propanediamine-
Epichlorohydrin copolymer
(treatment of semifinished leather surfaces with cationic or
amphoteric polymers)

RE

- (1) Anon; PATENT ABSTRACTS OF JAPAN 1998, V1998(04)
- (2) Benckiser Knapsack Gmbh; DE 3530478 A 1987 HCA
- (3) Buckman Labor Inc; DE 2616220 A 1976 HCA
- (4) Nikka Chem Co Ltd; JP 9324372 A 1997
- (5) White, G; GB 419941 A 1934 HCA

L258 ANSWER 3 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 142:221588 HCA Full-text

TI Epichlorohydrin amine polymers used for treating the surface of
leather.

IN Wolf, Gerhard; Hueffer, Stephan; Decker, Juergen; Scherr, Guenter;
Reese, Oliver

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	

PI	WO 2005014687	A1	20050217	WO 2004-EP8873	200408 06

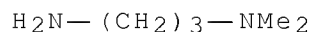
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GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
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DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL,
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GW, ML, MR, NE, SN, TD, TG

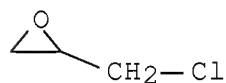
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			<--	
EP 1651699	B1	20070110		
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PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1832976	A	20060913	CN 2004-80022277	20040806
			<--	
CN 100379787	C	20080409		
BR 2004013268	A	20061010	BR 2004-13268	20040806
			<--	
ES 2279420	T3	20070816	ES 2004-763901	20040806
			<--	
US 20090094758	A1	20090416	US 2006-566375	20060130
			<--	
PRAI DE 2003-10336452	A	20030806	<--	
WO 2004-EP8873	W	20040806	<--	
AB	An aq. soln. of an epichlorohydrin amine polymer (prepd. by reacting ≥ 2 amines with ≥ 1 epichlorohydrin deriv.) at amine/epichlorohydrin ratios (0.8:1.2) - (1.0:1.0) is used for treating the surface of semifinished leather products and textile materials. A typical example of such copolymer prepd. by reacting 1,020 g of dimethylaminopropylamine, 267.5 g of benzylamine and 931 mL of epichlorohydrin in 1,519.1 g of water 2 h at 85° exhibits a solid content 21%, viscosity 32 mPa s and chloride content 1.19 mmol/g.			
IT	841312-89-8P			
	(aq. soln. of an epichlorohydrin amine polymer for treating the surface of semifinished leather products and textile materials)			
RN	841312-89-8 HCA			
CN	1,3-Propanediamine, N,N-dimethyl-, polymer with benzenemethanamine and (chloromethyl)oxirane (9CI) (CA INDEX NAME)			

CRN 109-55-7
CMF C5 H14 N2



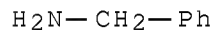
CM 2

CRN 106-89-8
CMF C3 H5 Cl O



CM 3

CRN 100-46-9
CMF C7 H9 N



IT 841312-89-8P

(aq. soln. of an epichlorohydrin amine polymer for treating the surface of semifinished leather products and textile materials)

RE

- (1) Buckman Labor Inc; EP 0431739 A 1991 HCA
- (2) Buckman Labor Inc; WO 9728687 A 1997 HCA
- (3) Canon Kk; EP 0738608 A 1996 HCA
- (4) Dixon, K; US 3738945 A 1973 HCA
- (5) Ray-Chaudhuri, D; US 3573095 A 1971

L258 ANSWER 4 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 133:94634 HCA Full-text

TI Amine condensation polymer bile acid sequestrants

IN Huval, Chad C.; Holmes-Farley, Stephen Randall; Whitesides, George M.

PA Geltex Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	
PI	WO 2000038664	A2	20000706	WO 1999-US30469	199912 20

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WO 2000038664 A3 20010726

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-219558 A 19981223 <--

AB A method for binding bile salts in a mammal, comprising the step of administering to the mammal a therapeutically effective amt. of one or more amine polymers prepd. by the process comprising the step of reacting a substituted or unsubstituted aliph., arom. or aralkyl bifunctional electrophile with at least one monomer comprising a substituted or unsubstituted hydrophobic moiety and a single nucleophilic substituent which is multireactive. A bile acid sequestrant was prepd. from dodecylamine, epichlorohydrin and 1,12-diaminododecane.

IT 280559-17-3P

(amine condensation polymer bile acid sequestrants)

RN 280559-17-3 HCA

CN 1,3-Propanediamine, N,N-dimethyl-, polymer with
N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine
and (chloromethyl)oxirane (9CI) (CA INDEX NAME)

CM 1

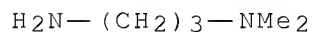
CRN 112-57-2

CMF C8 H23 N5



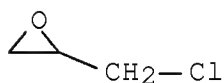
CM 2

CRN 109-55-7
CMF C5 H14 N2



CM 3

CRN 106-89-8
CMF C3 H5 Cl O



IT 280559-14-0P

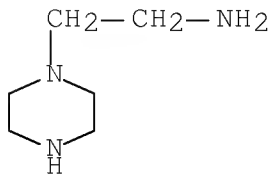
(amine condensation polymer bile acid sequestrants)

RN 280559-14-0 HCA

CN 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]-, polymer with (chloromethyl)oxirane and 1-piperazineethanamine (9CI) (CA INDEX NAME)

CM 1

CRN 140-31-8
CMF C6 H15 N3



CM 2

CRN 112-57-2

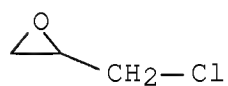
CMF C8 H23 N5



CM 3

CRN 106-89-8

CMF C3 H5 Cl O



IT 280559-17-3P

(amine condensation polymer bile acid sequestrants)

IT 280559-14-0P

(amine condensation polymer bile acid sequestrants)

RE

(1) Anon; WO 9404596 A1 HCA

(2) Anon; WO 9519384 A1 HCA

L258 ANSWER 5 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 131:279320 HCA Full-text

TI Waterproof-improving agent for ink jet printing paper and ink jet printing paper

IN Kinoshita, Hiroki; Takahashi, Toshiaki; Yamada, Masao; Gensho, Toshio

PA Nikka Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI JP 11277887 A 19991012 JP 1998-87220

199803
31

<--

PRAI JP 1998-87220 19980331 <--

AB The title waterproof-improving agent contains a cationic resin having a structure $[N+R_1R_2R_5N+R_3R_4CH_2CH(OH)CH_2]_{n.2}X^-$ [$R_1-4 = H, C_1-4$ alkyl, benzyl; $R_5 = C_1-6$ alkylene, phenylene, $(R_6NR_8R_7)_m$ ($R_6, R_7 = C_1-4$ alkylene, phenylene; $R_8 = H, C_1-4$ alkyl, benzyl); $m = 1-4$; $X^- =$ halo ion; $n = 3-30$] which is prepd. by reaction of an amine compd. having ≥ 2 amino groups with an epihalohydrin. An ink jet printing paper is also claimed, which is obtained by coating the agent. The printing paper provides a high quality image with improved water resistance and without ink blotting.

IT 245677-39-8P, Epichlorohydrin-ethylenediamine-triethylenetetramine copolymer
(ink-jet printing paper coated with cationic resin waterproof-improving agent)

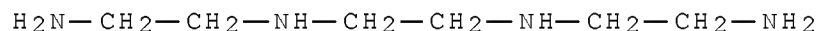
RN 245677-39-8 HCA

CN 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with (chloromethyl)oxirane and 1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 112-24-3

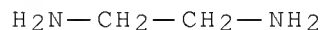
CMF C6 H18 N4



CM 2

CRN 107-15-3

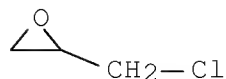
CMF C2 H8 N2



CM 3

CRN 106-89-8

CMF C3 H5 Cl O



IT 245677-39-8P, Epichlorohydrin-ethylenediamine-triethylenetetramine copolymer
(ink-jet printing paper coated with cationic resin waterproof-improving agent)

L258 ANSWER 6 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 119:210184 HCA Full-text

OREF 119:37311a,37314a

TI Prevention of marine biofouling

IN Ikuta, Sunao; Kajiwarara, Shoichiro; Yasunaga, Tooru; Nishimura, Kunio

PA Mitsubishi Gas Chemical Co., Japan; Katayama Chemical Works Co

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	
PI	JP 05038490	A	19930219	JP 1991-199092	19910808

<--

JP 3126423 B2 20010122

PRAI JP 1991-199092 19910808 <--

AB Comps. supplying H₂O₂ and water-sol. cation polymers prepd. by treating polyamines R₁R₂N(ANR₃)nR₄ (R₁-4 = H, C₁-3 alkyl; A = C₁-5 linear or branched alkylene; n = 1-5) with epihalohydrins or dihalogenoethyl ethers are added to seawater cooling system. Since low concn. use of the agents effectively controls biofouling, the water is not polluted.

IT 150673-03-3

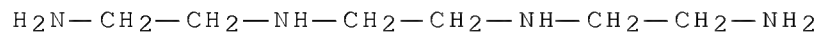
(biofouling control agents contg., prepn. of, for seawater cooling system)

RN 150673-03-3 HCA

CN 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with (chloromethyl)oxirane and N,N-dimethyl-1,2-ethanediamine (9CI) (CA INDEX NAME)

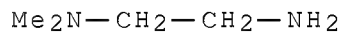
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CRN 112-24-3
CMF C6 H18 N4



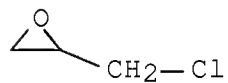
CM 2

CRN 108-00-9
CMF C4 H12 N2



CM 3

CRN 106-89-8
CMF C3 H5 Cl O



IT 150673-03-3

(biofouling control agents contg., prepn. of, for seawater cooling system)

L258 ANSWER 7 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 112:57419 HCA Full-text

OREF 112:9873a,9876a

TI Nitrogen-containing water-soluble polymer flocculants

IN Delcour, Kees

PA Dow Chemical Co., USA

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent
LA English
FAN.CNT 1

	PATENT NO. ----- -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
PI	US 4647379	A	19870303	US 1985-797571	198511 13

<--

PRAI US 1985-797571 19851113 <--

AB The title flocculants are prepd. without gelation by addn. of
epihalohydrins to piperazine (I) in the absence of strong bases to
form water-sol. prepolymers, which are reacted with a polyamine in
the absence of strong base. Epichlorohydrin (II) was added dropwise
to a 60° aq. soln. of I to 1.1:1 II-I with temp. controlled at
.apprx.100° and stirred 2 h to give a prepolymer, which was reacted
with an aq. soln. of a
pentaethylenehexamine-hexaethyleneheptamine mixt. to
prepolymer/polyamine ratio 6.8. An aq. suspension (500 mL) of kaolin
was flocculated with 0.5 mL of a 1% soln. of the polymer, giving a
clear water layer with some floating particles.

IT 70739-85-4P

(prepn. of water-sol., in 2 steps, as flocculant)

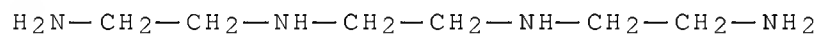
RN 70739-85-4 HCA

CN 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with
(chloromethyl)oxirane and piperazine (9CI) (CA INDEX NAME)

CM 1

CRN 112-24-3

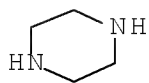
CMF C6 H18 N4



CM 2

CRN 110-85-0

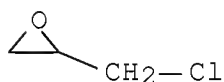
CMF C4 H10 N2



CM 3

CRN 106-89-8

CMF C3 H5 Cl O



IT 70739-85-4P

(prepn. of water-sol., in 2 steps, as flocculant)

RE

- (1) Anon; US 3391090 A
- (2) Anon; US 3523892 A
- (3) Anon; US 3917817 A HCA
- (4) Anon; US 3953330 A HCA
- (5) Anon; US 4129528 A HCA
- (6) Anon; US 4328142 A HCA
- (7) Anon; US 4482667 A HCA

L258 ANSWER 8 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 91:40164 HCA Full-text

OREF 91:6561a,6564a

TI Reactivity of polyethylene polyamines in the synthesis of anion exchangers of aminoepoxide type

AU Chetverikova, A. T.; Chetverikov, A. F.; Vakulenko, V. A.; Polikarpenko, V. P.; Pashkov, A. B.

CS USSR

SO Plasticheskie Massy (1979), (5), 6-8

CODEN: PLMSAI; ISSN: 0554-2901

DT Journal

LA Russian

AB The purity of polyethylenepolyamine (I) (ammonia-ClCH₂CH₂Cl reaction product) affects the gelation time (τ) of epichlorohydrin-polyethylenepolyamine copolymer (AN 31G) ion exchanger. The shortest τ (≤ 60 min) is obtained for epichlorohydrin-ethylenediamine copolymer

[25014-13-5] (model compd. for AN 31G) and for copolymers prepd. from I contg. high concns. of oligomeric amines. The longest τ (>4000 min) is obtained for epichlorohydrin-1,2-bis(dimethylamino)ethane copolymer [25988-98-1] and 1,4-diethylpiperazine-epichlorohydrin copolymer [70739-82-1] model compds.

IT 70739-85-4

(gelation time of, as ion exchanger model compd.)

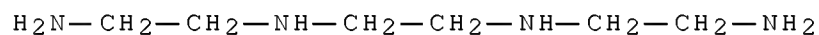
RN 70739-85-4 HCA

CN 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with (chloromethyl)oxirane and piperazine (9CI) (CA INDEX NAME)

CM 1

CRN 112-24-3

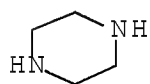
CMF C6 H18 N4



CM 2

CRN 110-85-0

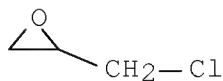
CMF C4 H10 N2



CM 3

CRN 106-89-8

CMF C3 H5 Cl O



IT 70739-85-4

(gelation time of, as ion exchanger model compd.)

L258 ANSWER 9 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 81:68354 HCA Full-text

OREF 81:10867a,10870a

TI Compositions for treatment and conditioning of the hair

IN Vanlerberghe, Guy; Sebag, Henri

PA Oreal S. A.

SO Fr. Demande, 26 pp.

CODEN: FRXXBL

DT Patent

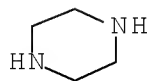
LA French

FAN.CNT 2

	PATENT NO. ----- -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
PI	FR 2162025	A1	19730713	FR 1972-42279	197211 28
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	FR 2162025	B1	19760130		
	NL 7216145	A	19730601	NL 1972-16145	197211 28
				<--	
	NL 176223	B	19841016		
	NL 176223	C	19850318		
	DE 2258222	A1	19730614	DE 1972-2258222	197211 28
				<--	
	DE 2258222	B2	19820204		
	DE 2258222	C3	19820923		
	BR 7208360	D0	19730830	BR 1972-8360	197211 28
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	JP 48075732	A	19731012	JP 1972-119293	197211 28
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	JP 60025410	B	19850618		
	AU 7249349	A	19740530	AU 1972-49349	197211 28
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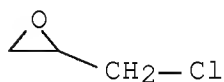
CH 559038	A5	19750228	CH 1972-17303	197211 28
US 3917817	A	19751104	<-- US 1972-310088	197211 28
GB 1416454	A	19751203	<-- GB 1972-54983	197211 28
AT 7210104	A	19751215	<-- AT 1972-10104	197211 28
AT 331990 DK 134141	B B	19760910 19760920	<-- DK 1972-5945	197211 28
CA 1026039	A1	19780207	<-- CA 1972-157715	197211 28
US 4013787	A	19770322	<-- US 1975-600188	197507 29
PRAI LU 1971-64371	A	19711129	<--	
US 1972-310088	A2	19721128	<--	
FR 1974-27030	A	19740802	<--	
AB	The active hair conditioning agents are low-mol. wt. (1,000-15,000), film-forming, cationic copolymers of piperazine and one or two straight- or branched-chain substituted or unsubstituted (<C8) alkenes, e.g., epichlorohydrin, benzylamine. They can be used in compns. of pH 3-11 in the form of free bases, salts, quaternary compds., or oxidn. products. Concns. of 0.2-3% can be used in lotions, creams, and shampoos and as adjuvants in many hair cosmetics.			
IT	52848-29-0P (prepn. of)			
RN	52848-29-0 HCA			
CN	Piperazine, polymer with benzenemethanamine and (chloromethyl)oxirane (9CI) (CA INDEX NAME)			

CRN 110-85-0
CMF C4 H10 N2



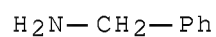
CM 2

CRN 106-89-8
CMF C3 H5 Cl O



CM 3

CRN 100-46-9
CMF C7 H9 N



IT 52848-29-0P
(prepn. of)

(CITATIONS BELOW HAVE ALL OF THE RECITED INGREDIENTS INCLUDING AT LEAST TWO DIFFERENT AMINES, BUT CANNOT GUARANTEE THAT TWO DIFFERENT AMINES ARE BOTH SIMULTANEOUSLY IN THE REACTION MIXTURE WITH THE EPICHLORHYDRIN--THAT MAY BE OR MAY NOT BE TRUE DEPENDING ON THE SPECIFIC WORDING IN THE CITATION.)

=> D L276 1-35 BIB ABS HITSTR HITIND

L276 ANSWER 1 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 145:489940 HCA Full-text

TI Dendritic ~~polymers~~ with enhanced amplification and interior functionality for use in various applications, such as drug delivery, transfection, and diagnostics

IN Tomalia, Donald A.; Swanson, Douglas R.; Huang, Baohua; Pulgam, Verra Reddy; Heinzelmann, Joseph R.; Svenson, Sonke; Reyna, Lori A.; Zhuravel, Michael A.; Chauhan, Abhay Singh; Demattei, Cordell R.

PA Dendritic Nanotechnologies, Inc., USA

SO PCT Int. Appl., 306 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2006115547	A2	20061102	WO 2005-US47635	20051221

WO 2006115547 A3 20090604

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

WO 2006065266	A2	20060622	WO 2005-US13864	20050420
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WO 2006065266 A3 20060914

WO 2006065266 A9 20061221

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AU 2005331023 A1 20061102 AU 2005-331023

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CA 2598430 A1 20061102 CA 2005-2598430

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R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
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BR 2005012282 A 20080226 BR 2005-12282

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JP 2008545621 T 20081218 JP 2008-507644

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IN 2006CN04302 A 20070615 IN 2006-CN4302

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22

US 20070298006 A1 20071227 US 2006-630044

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KR 2007066902 A 20070627 KR 2006-131202

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MX 2007010402 A 20080122 MX 2007-10402

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CN 101443048 A 20090527 CN 2005-80049281

200709
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PRAI WO 2005-US13864 A 20050420
 US 2004-563659P P 20040420 <--
 WO 2005-US47635 W 20051221

AB Dendritic **polymers** with enhanced amplification and interior
 functionality for use in deemulsifiers, wet strength agents, proton
 scavengers, calibration stds., size selective membranes, paint
 additives, drug delivery, transfection, and diagnostics are prepd. by

use of fast, reactive ring-opening chem. combined with the use of branch cell reagents in a controlled way to rapidly and precisely build dendritic structures, generation by generation, with cleaner chem., often single products, lower excesses of reagents, lower levels of diln., and lower cost.

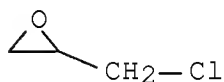
IT 106-89-8, Epichlorohydrin, reactions 107-15-3, Ethylene diamine, reactions 110-85-0, Piperazine, reactions 111-40-0, Diethylenetriamine 140-31-8, N-(2-Aminoethyl)piperazine 140-31-8D, 1-(2-Aminoethyl)piperazine, reaction products with dendrimers

RL: RCT (Reactant); RACT (Reactant or reagent)

(dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

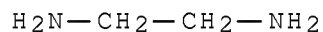
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CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



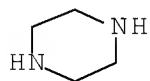
RN 107-15-3 HCA

CN 1,2-Ethanediamine (CA INDEX NAME)



RN 110-85-0 HCA

CN Piperazine (CA INDEX NAME)

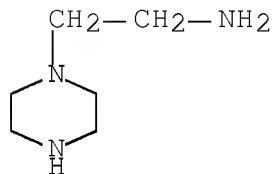


RN 111-40-0 HCA

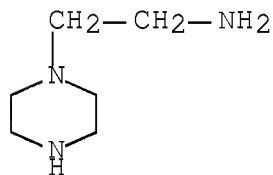
CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



RN 140-31-8 HCA
CN 1-Piperazineethanamine (CA INDEX NAME)



RN 140-31-8 HCA
CN 1-Piperazineethanamine (CA INDEX NAME)



CC 37~3 (Plastics Manufacture and Processing)
Section cross-reference(s): 63
ST ~~polymer~~ dendritic prepn; dendrimer drug delivery
transfection diagnostics
IT Inks
(Electronic; dendritic ~~polymers~~ with enhanced
amplification and interior functionality for use in electronic
inks)
IT Polyethers
RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(azide group-contg., dendritic; dendritic ~~polymers~~ with
enhanced amplification and interior functionality for use in
eukaryotic cells transfecting)
IT Ions
(carrier; dendritic ~~polymers~~ with enhanced
amplification and interior functionality for use as metal ion
carriers)
IT Drug delivery systems
(carriers; dendritic ~~polymers~~ with enhanced
amplification and interior functionality for use in various
applications, such as deemulsifiers, drug delivery, transfection,

and diagnostics)

IT Medical goods
(catheters; dendritic polymers with enhanced amplification and interior functionality for use in catheters)

IT Dental materials and appliances
(composites; dendritic polymers with enhanced amplification and interior functionality for use in dental compn.)

IT Catalyst supports
(dendritic polymers with enhanced amplification and interior functionality for use as catalyst carriers)

IT Quantum dot devices
(dendritic polymers with enhanced amplification and interior functionality for use as quantum dots)

IT Adhesives
(dendritic polymers with enhanced amplification and interior functionality for use in adhesives)

IT Antibacterial agents
(dendritic polymers with enhanced amplification and interior functionality for use in antibacterials)

IT Biomarkers
(dendritic polymers with enhanced amplification and interior functionality for use in biomarkers)

IT Carpets
(dendritic polymers with enhanced amplification and interior functionality for use in carpets)

IT Ceramics
(dendritic polymers with enhanced amplification and interior functionality for use in ceramics)

IT Textiles
(dendritic polymers with enhanced amplification and interior functionality for use in cloth)

IT Coating materials
(dendritic polymers with enhanced amplification and interior functionality for use in coatings)

IT Cosmetics
(dendritic polymers with enhanced amplification and interior functionality for use in cosmetics)

IT Deodorants
(dendritic polymers with enhanced amplification and interior functionality for use in deodorants)

IT Disinfectants
(dendritic polymers with enhanced amplification and interior functionality for use in disinfectants)

IT Optical imaging devices
(dendritic polymers with enhanced amplification and interior functionality for use in displays)

IT Electrodes
(dendritic polymers with enhanced amplification and interior functionality for use in electrodes)

IT Energy storage
(dendritic polymers with enhanced amplification and interior functionality for use in energy storage)

IT Eukaryota
(dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Fiber optics
(dendritic polymers with enhanced amplification and interior functionality for use in fiber optics)

IT Concrete
(dendritic polymers with enhanced amplification and interior functionality for use in fiberglass)

IT Glass fibers
RL: TEM (Technical or engineered material use); USES (Uses)
(dendritic polymers with enhanced amplification and interior functionality for use in fiberglass)

IT Fibers
RL: TEM (Technical or engineered material use); USES (Uses)
(dendritic polymers with enhanced amplification and interior functionality for use in fibers)

IT Filtration
(dendritic polymers with enhanced amplification and interior functionality for use in filtration)

IT Flavoring materials
(dendritic polymers with enhanced amplification and interior functionality for use in flavorings)

IT Fuel cells
(dendritic polymers with enhanced amplification and interior functionality for use in fuel cells)

IT Glass
RL: TEM (Technical or engineered material use); USES (Uses)
(dendritic polymers with enhanced amplification and interior functionality for use in glass)

IT Electric insulators
(dendritic polymers with enhanced amplification and interior functionality for use in interlayer dielec.)

IT Latex
(dendritic polymers with enhanced amplification and interior functionality for use in latex)

IT Electroluminescent devices
(dendritic polymers with enhanced amplification and interior functionality for use in light emitting diodes)

IT Magnetic memory devices
(dendritic polymers with enhanced amplification and

interior functionality for use in magnetic storage systems)

IT Medical goods
 (dendritic polymers with enhanced amplification and
 interior functionality for use in medical devices)

IT Metals
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dendritic polymers with enhanced amplification and
 interior functionality for use in metal)

IT Molecular electronics
 (dendritic polymers with enhanced amplification and
 interior functionality for use in mol. electronics)

IT Paper
 (dendritic polymers with enhanced amplification and
 interior functionality for use in papers)

IT Photonics
 (dendritic polymers with enhanced amplification and
 interior functionality for use in photonics)

IT Photoresists
 (dendritic polymers with enhanced amplification and
 interior functionality for use in photoresist)

IT Pigments, nonbiological
 (dendritic polymers with enhanced amplification and
 interior functionality for use in pigments)

IT Rubber
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dendritic polymers with enhanced amplification and
 interior functionality for use in rubber)

IT Sensors
 (dendritic polymers with enhanced amplification and
 interior functionality for use in sensors)

IT Containers
 (dendritic polymers with enhanced amplification and
 interior functionality for use in stones)

IT Stone (construction material)
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dendritic polymers with enhanced amplification and
 interior functionality for use in stones)

IT Electrophotographic toners
 (dendritic polymers with enhanced amplification and
 interior functionality for use in toners)

IT Transistors
 (dendritic polymers with enhanced amplification and
 interior functionality for use in transistors)

IT Dendritic polymers
 RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or
 reagent); USES (Uses)

(dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT Waveguides
(dendritic polymers with enhanced amplification and interior functionality for use in waveguides)

IT Wood
(dendritic polymers with enhanced amplification and interior functionality for use in wood)

IT Encapsulants
(drug; dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT Polyethers
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(epoxy, dendritic; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Drug delivery systems
(implants; dendritic polymers with enhanced amplification and interior functionality for use in stones)

IT Absorbents
(microwave, IR; dendritic polymers with enhanced amplification and interior functionality for use in microwave or IR absorbers)

IT Particles
(paramagnetic, carrier; dendritic polymers with enhanced amplification and interior functionality for use as paramagnetic particles carriers)

IT Semiconductor materials
(particles carriers; dendritic polymers with enhanced amplification and interior functionality for use as semiconductor particle carriers)

IT Polyamines
RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(polyamide-, dendrimers; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Polyethers
RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(polyamide-, dendritic; dendritic polymers with enhanced amplification and interior functionality for use in

eukaryotic cells transfecting)

IT Dendritic polymers
 RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (polyamide-polyamines; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Polyamides
 RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (polyamine-, dendrimers; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Polyesters
 Polyethers
 RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (polyamine-, dendritic; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Polyamines
 Polythioethers
 RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (polyester-, dendritic; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Epoxy resins
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (polyether-, dendritic; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Polyamides
 Polyamines
 RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (polyether-, dendritic; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Polyesters
 RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic

use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (polythioether-, dendritic; dendritic polymers with enhanced amplification and interior functionality for use in eukaryotic cells transfecting)

IT Calibration
 (size; dendritic polymers with enhanced amplification and interior functionality for use in size calibration)

IT Medical goods
 (stents; dendritic polymers with enhanced amplification and interior functionality for use in stones)

IT Lithography
 (submicron; dendritic polymers with enhanced amplification and interior functionality for use in nanolithog.)

IT Chromatography
 (supports; dendritic polymers with enhanced amplification and interior functionality for use as supports in sepns.)

IT 914111-87-8 1057290-29-5
 RL: PRPH (Prophetic)
 (Dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as drug delivery, transfection, and diagnostics)

IT 7440-57-5, Gold, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dendrimer core; dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 867178-38-9P, CyTE 807
 RL: BSU (Biological study, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation)
 (dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 757960-10-4, IR-806
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
 (dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 80529-93-7
 RL: DGN (Diagnostic use); BIOL (Biological study); USES (Uses)
 (dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 893412-07-2P 914111-49-2P 914111-51-6P 914111-53-8P

RL: IMF (Industrial manufacture); PREP (Preparation)

(dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 120-43-4DP, reaction products with pentaerythritol tetraglycidyl ether and polyethylenimine 1471-18-7P, Pentaerythritol tetraallyl ether 3126-63-4DP, reaction products with polyethylenimine and Et piperazinecarboxylate 3126-63-4P, Pentaerythritol tetraglycidyl ether 9002-98-6DP, reaction products with pentaerythritol tetraglycidyl ether and Et piperazinecarboxylate 13236-00-5P, Pentaerythritol triglycidyl ether 25805-17-8DP, hydrolyzed, end-capped with dendritic poly(etherhydroxylamine) 49859-90-7P, 1-Imidazolidineethanamine 133466-62-3P 148193-00-4P, Bis(2-piperazinoethyl) disulfide 723342-61-8P 893411-65-9P 893411-66-0P 893411-67-1P 893411-68-2P 893411-69-3P 893411-71-7P 893411-72-8DP, reaction products with PAMAM and 1-(aminoethyl)piperazine 893411-73-9P 893411-74-0P 893411-75-1P 893411-76-2P 893411-77-3P 893411-78-4P 893411-79-5P 893411-80-8P 893411-81-9P 893411-82-0P 893411-83-1P 893411-84-2P 893411-85-3P 893411-86-4P 893411-87-5P 893411-88-6P 893411-89-7P 893411-90-0P 893411-91-1P 893411-92-2P 893411-93-3P 893411-94-4P 893411-95-5P 893411-96-6P 893411-97-7P 893411-98-8P 893411-99-9P 893412-00-5P 893412-01-6P 893412-02-7P 893412-03-8P 893412-04-9P 893412-05-0P 893412-06-1P 893412-08-3P 893412-09-4P 893412-10-7P 893412-11-8P 893412-12-9P 893412-13-0P 893412-14-1P 893412-15-2P 893412-16-3P 893412-18-5P 893412-21-0P 893412-22-1P 893412-23-2P 911415-47-9P 914111-39-0P 914111-40-3P 914111-41-4P 914111-43-6P 914111-44-7P 914111-46-9P 914111-47-0P 914111-48-1P 914111-50-5P 914111-54-9P 914111-55-0P 914111-56-1P 914111-57-2P 914111-58-3P 914111-59-4P 914111-60-7P 914111-61-8P 914111-63-0P 914111-64-1P 914111-65-2P 914111-66-3P 914111-67-4P 914111-69-6P 914111-70-9P 914111-71-0P 914111-72-1P 914111-73-2P 914111-74-3P 914111-78-7P 914111-79-8P 914111-80-1P 914111-81-2P 914111-82-3P 914111-83-4P 914111-84-5P 914111-86-7P 914111-87-8DP, reaction products with gold nanoparticles 914301-40-9P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP

(Preparation); RACT (Reactant or reagent)

(dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 130920-81-9P 893411-77-3DP, reaction products with Et oxazoline homopolymer 893411-79-5DP, reaction products with glycidol 914111-62-9P 914111-68-5P 914111-75-4DP, reaction products with

dendrimer contg. Et ester surface group and

1-(2-aminoethyl)piperazine 914111-76-5P 914111-77-6P

914301-79-4P 914301-80-7P

RL: IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 50-00-0, Formaldehyde, reactions 62-56-6, Thiourea, reactions 75-55-8, 2-Methylaziridine 96-33-3, Methyl acrylate 103-49-1, Dibenzylamine 106-89-8, Epichlorohydrin, reactions 106-95-6, Allyl bromide, reactions 106-96-7, Propargyl bromide 107-15-3, Ethylene diamine, reactions 107-96-0, 3-Mercaptopropionic acid 108-10-1, 4-Methyl-2-pentanone 108-24-7, Acetic anhydride 110-85-0, Piperazine, reactions 111-40-0, Diethylenetriamine 111-41-1, (2-Hydroxyethyl) ethylenediamine 111-42-2, Diethanolamine, reactions 115-77-5, Pentaerythritol, reactions 124-02-7, Diallyl amine 124-09-4, Hexamethylenediamine, reactions 140-31-8, N-(2-Aminoethyl)piperazine 140-31-8D, 1-(2-Aminoethyl) piperazine, reaction products with dendrimers 141-43-5, Ethanolamine, reactions 420-12-2, Ethylene sulfide 534-26-9, 2-Methyl-2-imidazoline 628-87-5, Iminodiacetonitrile 762-42-5, Dimethylacetylene dicarboxylate 937-14-4, m-Chloroperoxy benzoic acid 1471-17-6, Pentaerythritol triallyl ether 2095-03-6, Bis(4-glycidyloxyphenyl)methane 2451-62-9, Tris(2,3-Epoxypropyl)isocyanurate 3454-29-3, Trimethylolpropane triglycidyl ether 4097-89-6, Tris(2-aminoethyl)amine 6290-05-7, Diethyl iminodiacetate 7681-57-4, Sodium meta-Bisulfite 10471-78-0 10595-60-5 14002-32-5, Tris(hydroxymethylamine) (14283-07-9, Lithium tetrafluoroborate 15625-89-5, Trimethylolpropane triacrylate 17261-34-6 17557-23-2, Neopentyl glycol diglycidyl ether 26628-22-8, Sodium azide 28768-32-3 66072-38-6, Triphenylolmethane triglycidylether 67186-35-0, Acryloxymethyltrimethylsilane 101567-38-8 139611-97-5 566916-00-5 893412-17-4 914111-42-5 914111-45-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 53-86-1, Indomethacin 15663-27-1, Cisplatin

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(dendritic polymers with enhanced amplification and interior functionality for use in various applications, such as deemulsifiers, drug delivery, transfection, and diagnostics)

IT 26937-01-9D, PAMAM, reaction products with dendrimer contg. Et ester

surface groups and 1-(aminoethyl)piperazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(dendritic; dendritic polymers with enhanced
amplification and interior functionality for use in various
applications, such as deemulsifiers, drug delivery, transfection,
and diagnostics)

IT 914111-85-6P

RL: IMF (Industrial manufacture); PREP (Preparation)
(hyper-branched; dendritic polymers with enhanced
amplification and interior functionality for use in various
applications, such as deemulsifiers, drug delivery, transfection,
and diagnostics)

L276 ANSWER 2 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 145:83842 HCA Full-text

TI Dendritic polymers with enhanced amplification and
interior functionality

IN Tomalia, Donald A.; Swanson, Douglas R.; Huang, Baohua; Pulgam,
Veera Reddy

PA Dendritic Nanotechnologies, Inc., USA

SO PCT Int. Appl., 143 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2006065266	A2	20060622	WO 2005-US13864	200504 20

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WO 2006065266 A3 20060914

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CN 1946772	A	20070411	CN 2005-80012562	200504 20
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BR 2005010093	A	20071016	BR 2005-10093	200504 20
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JP 2007533838	T	20071122	JP 2007-509679	200504 20
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AU 2005331023	A1	20061102	AU 2005-331023	200512 21
CA 2598430	A1	20061102	CA 2005-2598430	200512 21
WO 2006115547	A2	20061102	WO 2005-US47635	200512 21
WO 2006115547	A3	20090604		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,				

ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
 EP 1877103 A2 20080116 EP 2005-857843

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R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK,
 TR, AL, BA, HR, MK, YU
 BR 2005012282 A 20080226 BR 2005-12282

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JP 2008545621 T 20081218 JP 2008-507644

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US 20070244296 A1 20071018 US 2006-594776

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MX 2006012207 A 20070213 <--
 MX 2006-12207

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KR 2007015432 A 20070202 <--
 KR 2006-724191

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KR 843362 B1 20080702 <--
 IN 2006CN04277 A 20070629 IN 2006-CN4277

200611
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IN 2006CN04302 A 20070615 <--
 IN 2006-CN4302

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MX 2007010402 A 20080122 MX 2007-10402

200708
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CN 101443048 A 20090527 CN 2005-80049281

200709
 26

PRAI US 2004-563659P P 20040420 <--
 WO 2005-US13864 W 20050420
 WO 2005-US47635 W 20051221

AB Dendritic polymers with surface group no. defined by the equation $z = N_c N_b G$ [G = no. of concentric branched cell shells surrounding the core, N_b = branched cell multiplicity, N_c (core multiplicity) = 1-1000] and interior functionality 0 or 1-1000 are disclosed. These dendritic polymer are made by use of fast, reactive ring opening

chem. (or other fast reactions) combined with the use of branch cell reagents in a controlled way to rapidly and precisely build dendrimer structures, generation by generation, with precise structures with cleaner chem., typically single products, lower excesses of reagents, lower levels of diln., higher capacity method, more easily scale to com. dimensions, new ranges of materials, and lower cost. The dendrimer compn. prepd. have novel internal functionality, greater stability, e.g., thermal stability and less or no reverse Michaels reaction, and which reach encapsulation surface densities at lower generations. These reactions of polyfunctional branch cell reagents with polyfunctional surfaces do not create gelled materials. A typical G1 dendrimer was manufd. by reaction of 6.32 g Et N-piperazinecarboxylate 2 h 20 min with 3.6 g pentaerythritol tetraglycidyl ether (I) in MeOH, removal other the carboethoxy groups by KOH at 85-90° in water-MeOH soln., reaction of 1.65 g 2nd intermediate 2 days with 5.05 g I in MeOH, and removal of the carboethoxy groups by KOH at 85-90° in water-MeOH soln.

IT 106-89-8, Epichlorohydrin, reactions 107-15-3,
Ethylenediamine, reactions 110-85-0, Piperazine, reactions
111-40-0, Diethylenetriamine 140-31-8,

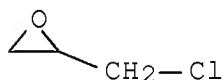
1-(2-Aminoethyl)piperazine

RL: RCT (Reactant); RACT (Reactant or reagent)

(precursor; dendritic polymers with enhanced surface
group content and interior functionality)

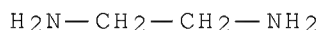
RN 106-89-8 HCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



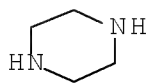
RN 107-15-3 HCA

CN 1,2-Ethanediamine (CA INDEX NAME)



RN 110-85-0 HCA

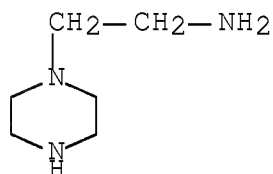
CN Piperazine (CA INDEX NAME)



RN 111-40-0 HCA
 CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



RN 140-31-8 HCA
 CN 1-Piperazineethanamine (CA INDEX NAME)



CC 35~7 (Chemistry of Synthetic High Polymers)
 ST dendritic polymer surface functionality enhancement;
 interior functionality enhancement dendritic polymer;
 ethyl piperazinecarboxylate pentaerythritol tetraglycidyl ether
 dendrimer manuf
 IT Dendritic polymers
 RL: IMF (Industrial manufacture); PRP (Properties); PREP
 (Preparation)
 (dendritic polymers with enhanced surface group content
 and interior functionality)
 IT Agriculture and Agricultural chemistry
 (dendritic polymers with enhanced surface group content
 and interior functionality for agricultural formulations)
 IT Drugs
 (dendritic polymers with enhanced surface group content
 and interior functionality for pharmaceutical compns.)
 IT Polythioethers
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (polyamine-; dendritic polymers with enhanced surface
 group content and interior functionality)
 IT Polyethers, preparation

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
 (polyamine-; dendritic polymers with enhanced surface group content and interior functionality)

IT Polyamines
 RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
 (polyether-; dendritic polymers with enhanced surface group content and interior functionality)

IT Polyamines
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (polythioether-; dendritic polymers with enhanced surface group content and interior functionality)

IT 893411-68-2P 893411-71-7P 893411-73-9P 893411-74-0P
 893411-75-1P 893411-76-2P 893411-84-2P 893411-85-3P
 893411-86-4P 893411-87-5P 893411-89-7P 893411-90-0P
 893411-91-1P 893411-93-3P 893411-94-4P 893411-96-6P
 893411-97-7P 893411-98-8P 893412-00-5P 893412-01-6P
 893412-02-7P 893412-04-9P 893412-05-0P 893412-09-4P
 893412-10-7P 893412-11-8DP, reaction products with mercaptoethanol
 893412-13-0P 893412-14-1P 893412-15-2P 893412-16-3P
 893412-18-5P 893412-19-6P 893412-20-9P 893412-22-1P
 893412-23-2P 894098-23-8P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (dendritic polymers with enhanced surface group content and interior functionality)

IT 80529-93-7DP, Gd-DTPA, complexes with dendritic polymers
 893411-78-4DP, complexes with Gd-DTPA 893411-88-6DP, complexes with Gd-DTPA 893412-24-3P
 RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
 (dendritic polymers with enhanced surface group content and interior functionality)

IT 893411-67-1P 893411-70-6P 893411-78-4P 893411-79-5P
 893411-80-8P 893411-81-9P 893411-82-0P 893411-83-1P
 893411-88-6P, Ethyl N-piperazinecarboxylate-pentaerythritol tetraglycidyl ether copolymer 893411-92-2P
 893411-95-5P 893411-99-9P 893412-03-8P 893412-11-8P
 893412-12-9P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (dendritic polymers with enhanced surface group content and interior functionality)

IT 3126-63-4P, Pentaerythritol tetraglycidyl ether 130920-81-9P
 893411-65-9P 893411-66-0P 893411-69-3P 893411-72-8P
 893411-77-3P 893412-06-1P 893412-07-2P 893412-08-3P
 893412-21-0P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(precursor; dendritic polymers with enhanced surface
group content and interior functionality)

IT 60-24-2, Mercaptoethanol 75-55-8, 2-Methylaziridine 77-86-1,
TRIS 96-33-3, Methyl acrylate 106-89-8, Epichlorohydrin,
reactions 107-15-3, Ethylenediamine, reactions 108-10-1,
4-Methyl-2-pentanone 110-85-0, Piperazine, reactions
110-91-8, Morpholine, reactions 111-40-0,
Diethylenetriamine 111-42-2, Diethanolamine, reactions 115-77-5,
Pentaerythritol, reactions 120-43-4, Ethyl N-piperazinecarboxylate
124-02-7, Diallylamine 124-09-4, Hexamethylenediamine, reactions
140-31-8, 1-(2-Aminoethyl)piperazine 141-43-5,
Ethanolamine, reactions 617-52-7, Dimethyl itaconate 2095-03-6,
Bis(4-glycidyloxyphenyl)methane 2451-62-9, Tris(2,3-epoxypropyl)
isocyanurate 3454-29-3, Trimethylolpropane triglycidyl ether
5026-74-4, N,N-Diglycidyl-4-glycidyloxyaniline 6290-05-7, Diethyl
iminodiacetate 10471-78-0, 2-Isopropenyl-2-Oxazoline 15625-89-5,
Trimethylolpropane triacrylate 28768-32-3,
4,4'-Methylenebis(N,N-diglycidylaniline) 43224-82-4 60457-62-7
139611-97-5 566916-00-5 893412-17-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(precursor; dendritic polymers with enhanced surface
group content and interior functionality)

L276 ANSWER 3 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 143:175508 HCA Full-text

TI Complexing sorbent, method for the production and use thereof

IN Polosin, Vladimir Mikhailovich; Krasavin, Igor Alexandrovich;
Orlova, Galina Vladimirovna; Visokova, Nina Nikolaevna; Dolzhnikova,
Elena Nikolaevna; Ryabokobilko, Yuri Sergeevich; Evdokimova, Natalia
Nikolaevna; Belyakov, Evgeni Alexandrovich

PA Russia

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DT Patent

LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005068070	A1	20050728	WO 2005-RU12	200501 17

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GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
 KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
 MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE,
 SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,
 NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
 GN, GQ, GW, ML, MR, NE, SN, TD, TG
 RU 2270056 C2 20060220 RU 2004-100851

200401
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PRAI RU 2004-100851 A 20040115 <--

AB The invention relates to applied chem., in particular to a complexing sorbent contg. an active sorbing layer which is immobilized on a solid carrier embodied as a cellulose or a synthetic polymer and comprises ethylenediamine or diethylenetriamine or triethylenetetramine or tetraethylenepentamine or polyethylenepolyamine or polyethylenepolyamine with copolymers, condensed with complexons, selected from a group contg. carboxyl-contg. complexons with fragments -NHCH₂COOH, -N(CH₂COOH)₂, complexons with phosphonic groups arrangement -N(CH₂PO₃H₂)₂, hydroxyl-contg. complexons with fragments =NCH₂CH₂OH, HOCH₂CH₂-N-CH₂COOH, HOCH₂CH₂-N-CH₂PO(OH)₂. Methods for producing inventive sorbent and using said sorbent for removing ions of a variety of valencies of different metals and metalloids from aq. media at a large range of pH assocd. with a subsequent regeneration of said sorbent are also disclosed. Monovalent cations, such as sodium, potassium, and lithium, did not sorb well.

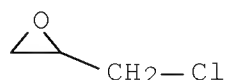
IT 106-89-8, Epichlorohydrin, reactions 107-15-3,
 Ethylenediamine, reactions 111-40-0, Diethylenetriamine
 112-57-2, Tetraethylenepentamine

RL: RCT (Reactant); RACT (Reactant or reagent)

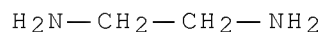
(complexing sorbent, method for prodn. and use thereof for cation exchange)

RN 106-89-8 HCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



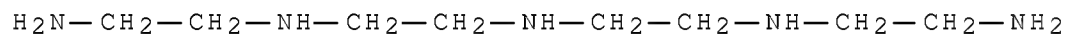
RN 107-15-3 HCA
CN 1,2-Ethanediamine (CA INDEX NAME)



RN 111-40-0 HCA
CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



RN 112-57-2 HCA
CN 1,2-Ethanediamine, N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]- (CA INDEX NAME)



IT 7647-01-0, Hydrochloric acid, reactions
RL: ARG (Analytical reagent use); RCT (Reactant); ANST (Analytical study); RACT (Reactant or reagent); USES (Uses)
(for regeneration; complexing sorbent, method for prodn. and use thereof for cation exchange)
RN 7647-01-0 HCA
CN Hydrochloric acid (CA INDEX NAME)



IC ICM B01J020-26
ICS B01J020-24; B01J020-32; C02F001-28
CC 48-1 (Unit Operations and Processes)
Section cross-reference(s): 35, 38, 79
ST complexation sorbent immobilized active layer cation exchange cellulose resin
IT Polymers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(carrier; complexing sorbent, method for prodn. and use thereof)

for cation exchange)

IT Phenolic resins, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (complexing sorbent, method for prodn. and use thereof for cation exchange)

IT Acids, reactions
 RL: ARG (Analytical reagent use); RCT (Reactant); ANST (Analytical study); RACT (Reactant or reagent); USES (Uses)
 (for metal ion elution and resin regeneration; complexing sorbent, method for prodn. and use thereof for cation exchange)

IT Polyamines
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyethylene-, reaction products, reaction products with styrene-divinyl benzene- based copolymers; complexing sorbent, method for prodn. and use thereof for cation exchange)

IT Phenolic resins, uses
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (sulfo-contg., reaction products with propylene-ethyleneimine copolymers, complexes with Phosphonomethylglycine; complexing sorbent, method for prodn. and use thereof for cation exchange)

IT 9003-70-7DP, Styrene-divinyl benzene copolymer, sulfonated, chlorided, hydroxymethylated, or chloromethylated, reaction products with polyethylenepolyamines and combinations of amino-contg. carboxylic and phosphonic acids
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (complexing sorbent)

IT 60-00-4, Ethylenediaminetetraacetic acid, reactions 67-43-6, Diethylenetriamine-N,N,N',N'',N'''-pentaacetic acid 106-89-8, Epichlorohydrin, reactions 107-15-3, Ethylenediamine, reactions 111-40-0, Diethylenetriamine 112-57-2, Tetraethylenepentamine 139-13-9, Nitrilotriacetic acid 1071-83-6, Phosphonomethylglycine 1310-73-2, Sodium hydroxide, reactions 2809-21-4, (1-Hydroxyethylidene)diphosphonic acid 5835-28-9, N-(2-Hydroxyethyl)glycine 5994-61-6, N-(Phosphonomethyl)iminodiacetic acid 9003-35-4D, Phenol-formaldehyde copolymer, sulfonated 9003-70-7D, Styrene-divinyl benzene copolymer, sulfonated, chlorided, hydroxymethylated, or chloromethylated 17261-34-6, Iminodimethylenephosphonic acid 53825-97-1, N-(2-Hydroxyethyl)diethylenetriamine-N,N',N'',N'''-tetraacetic acid 861001-94-7
 RL: RCT (Reactant); RACT (Reactant or reagent)

(complexing sorbent, method for prodn. and use thereof for cation exchange)

IT 139-13-9DP, Nitrilotriacetic acid, complexes with sulfochlorinated styrene-divinyl benzene-aziridine graft copolymer
1071-83-6DP, Phosphonomethylglycine, complexes with phenol-formaldehyde-propylene-aziridine graft copolymer
2809-21-4DP, (1-Hydroxyethylidene)diphosphonic acid, reaction products with cellulose-polyaziridine-epichlorohydrin copolymer
5994-61-6DP, N-(Phosphonomethyl)iminodiacetic acid, complexes with sulfonated styrene-divinyl benzene-triethylenetetraamine graft copolymer
9004-34-6DP, Cellulose, reaction products with 17261-34-6DP, Iminodimethylenephosphonic acid, reaction products with epichlorohydrin-cellulose-diethylenetriamine copolymer
53825-97-1DP, N-(2-Hydroxyethyl)diethylenetriamine-N,N',N'',N'''-tetraacetic acid, complexes with hydroxymethylated styrene-divinyl benzene-triethylenetetraamine graft copolymer
183428-29-7DP, chloromethylated, complexes with N-(2-Hydroxyethyl)glycine, and sulfochlorinated, complexes with nitrilotriacetic acid
861001-88-9P 861001-89-0DP, reaction products with (1-Hydroxyethylidene)diphosphonic acid
861001-90-3P 861001-92-5P 861001-93-6DP, reaction products with iminodimethylenephosphonic acid
861001-94-7DP, reaction products with sulfonated-chlorided styrene-divinyl benzene copolymer
861001-95-8DP, hydroxymethylated, complexes with N-(2-hydroxyethyl)diethylenetriamine-N,N',N'',N'''-tetraacetic acid and sulfonated, complexes with N-(Phosphonomethyl)iminodiacetic acid
861001-96-9DP, complexes with Phosphonomethylglycine
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(complexing sorbent, method for prodn. and use thereof for cation exchange)

IT 7647-01-0, Hydrochloric acid, reactions
7697-37-2, Nitric acid, reactions
RL: ARG (Analytical reagent use); RCT (Reactant); ANST (Analytical study); RACT (Reactant or reagent); USES (Uses)

(for regeneration; complexing sorbent, method for prodn. and use thereof for cation exchange)

IT 5835-28-9DP, N-(2-Hydroxyethyl)aminoacetic acid, complexes with chloromethylated styrene-divinyl benzene-aziridine graft copolymer and other N-derivs. and complexes

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(immobilized on carrier; complexing sorbent, method for prodn. and use thereof for cation exchange)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L276 ANSWER 4 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 143:59847 HCA

TI Preparation of novel quinoline derivatives for treating hyperproliferative disorders

L276 ANSWER 5 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 142:316854 HCA

TI Preparation of substituted fused pyrimidine-4(3H)-one compounds with affinity for liver X receptors

L276 ANSWER 6 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 142:297989 HCA

TI Preparation of substituted indoles as inhibitors of poly(ADP-ribose) polymerase (PARP)

L276 ANSWER 7 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 142:219283 HCA

TI Preparation of 1H-imidazo[4,5-c]pyridin-2-yl derivatives as inhibitors of Akt activity

L276 ANSWER 8 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 142:204494 HCA Full-text

TI Preparation of a new adsorbent for removal of low density lipoprotein

AU Fu, Guo-Qi; Chen, Xin-Fu; Yuan, Zhi; Liu, Bin; Shen, Bin; He, Bing-Lin

CS State Key Lab. Functional Polymer Mater. Adsorption and Separation, Inst. Polymer Chem., Nankai Univ., Tianjin, 300071, Peop. Rep. China

SO Gaodeng Xuexiao Huaxue Xuebao (2004), 25(6), 1183-1185

CODEN: KTHPDM; ISSN: 0251-0790

PB Gaodeng Jiaoyu Chubanshe

DT Journal

LA Chinese

AB On the basis of low d. lipoprotein (LDL) adsorption on matrix-bound tryptophan, a new LDL adsorbent was prepd. with indole-3-acetic acid (IAA) as a ligand, which had indole group in its chem. structure just as tryptophan. Macroporous polyvinyl alc. (PVA) beads were obtained by suspension copolymn. of vinyl acetate and triallyl isocyanurate in the presence of porogen, followed by subsequent alcoholysis step. The PVA beads were allowed to react with epichlorohydrin, and the thus obtained epoxidized beads were then reacted with several polyamines to introduce space arms with different lengths. IAA was then coupled to the spacer-attaching beads by using DCC/HOBt method employed commonly in polypeptide synthesis. The primary in vitro adsorption tests showed that the obtained adsorbents provided a good binding capacity for LDL, and had much larger absorbing capacity than

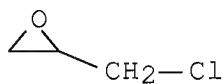
the adsorbent prepd. by direct immobilization of tryptophan on the epoxy-activated PVA beads. This proves that indole groups do play an important part in binding LDL.

IT 106-89-8, Epichlorohydrin, reactions 107-15-3,
1,2-Ethanediamine, reactions 111-40-0 112-24-3
112-57-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of adsorbents contg. PVA and amines and indole acetic
acid for removal of low d. lipoprotein)

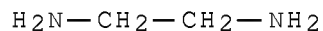
RN 106-89-8 HCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



RN 107-15-3 HCA

CN 1,2-Ethanediamine (CA INDEX NAME)



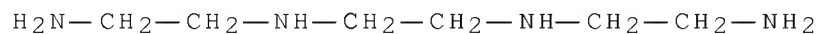
RN 111-40-0 HCA

CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



RN 112-24-3 HCA

CN 1,2-Ethanediamine, N1,N2-bis(2-aminoethyl)- (CA INDEX NAME)



RN 112-57-2 HCA

CN 1,2-Ethanediamine, N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]- (CA INDEX NAME)

H₂N—CH₂—CH₂—NH—CH₂—CH₂—NH—CH₂—CH₂—NH—CH₂—CH₂—NH₂

CC 63-8 (Pharmaceuticals)
Section cross-reference(s): 25, 35
IT 73-22-3, Tryptophan, reactions 87-51-4, Indole-3-acetic acid,
reactions 106-89-8, Epichlorohydrin, reactions
107-15-3, 1,2-Ethanediamine, reactions 111-40-0
112-24-3 112-57-2 124-09-4, 1,6-Hexanediamine,
reactions 538-75-0, DCC
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of adsorbents contg. PVA and amines and indole acetic
acid for removal of low d. lipoprotein)

L276 ANSWER 9 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 141:314320 HCA
TI Preparation of indazoles and related compounds as p38 inhibitors

L276 ANSWER 10 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 141:190781 HCA
TI Preparation of pyrrolopyridinones as mitogen activated protein
kinase-activated protein kinase-2 inhibiting compounds

L276 ANSWER 11 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 141:71568 HCA Full-text
TI Preparation of supported triazine compounds and their use in forming
multidimensional libraries for affinity chromatography
IN Burton, Steven James; Hussain, Abid; Pearson, James Christopher
PA Prometic Biosciences Ltd., UK
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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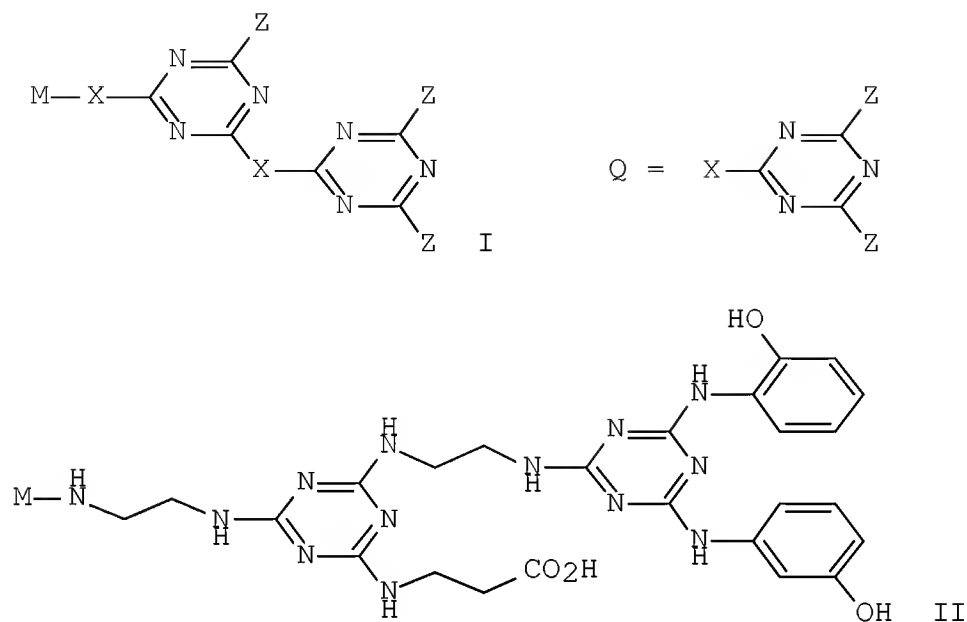
PI	WO 2004052870	A1	20040624	WO 2003-GB5368	200312 09

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CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,

					MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	
	RW:				BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
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CN	1788003	A	20060614	CN	2003-80105520	20031209
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IN	2005DN02990	A	20090320	IN	2005-DN2990	20050705
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US	20060052598	A1	20060309	US	2005-536953	20050808
					<--	
PRAI	GB 2002-28724	A	20021209	<--		
	US 2003-443092P	P	20030128	<--		
	WO 2003-GB5368	W	20031209	<--		

OS MARPAT 141:71568
GI



AB Supported triazine multidimensional combinatorial libraries I (each Z = independently Q, Y; each X = independently multivalent aminyl group, diaminy-terminated spacer; each Y = independently aminyl group; M = support matrix) were prep'd. ligands for the purifn. of natural, recombinant, or transgenic proteinaceous materials. Thus, a combinatorial library contg. linked triazines II (M = epichlorohydrin-derivatized agarose resin) was prep'd. in several steps by condensing the appropriate diamines with cyanuric chloride, followed by further derivatization with diamines, amino alcs., or amino acids.

IT 100-46-9, Benzylamine, reactions 106-89-8,
Epichlorohydrin, reactions 107-15-3, Ethylenediamine,
reactions

RL: CRT (Combinatorial reactant); RCT (Reactant); CMBI
(Combinatorial study); RACT (Reactant or reagent)

(prepn. of supported multidimensional triazine combinatorial
libraries for affinity chromatog. purifn. of proteinaceous
materials)

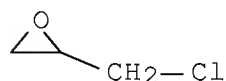
RN 100-46-9 HCA

CN Benzenemethanamine (CA INDEX NAME)



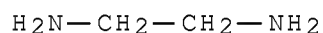
RN 106-89-8 HCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



RN 107-15-3 HCA

CN 1,2-Ethanediamine (CA INDEX NAME)



IC ICM C07D251-54

ICS C07D251-70; C07D403-14; B01D015-08; G01N030-48

CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 9

IT 711012-18-9DP, reaction products with epichlorohydrin-derivatized agarose resin 711012-20-3DP, reaction products with epichlorohydrin-derivatized agarose resin 711012-21-4DP, reaction products with epichlorohydrin-derivatized agarose resin

RL: CPN (Combinatorial preparation); PUR (Purification or recovery);
CMBI (Combinatorial study); PREP (Preparation)
(prepn. of supported multidimensional triazine combinatorial libraries for affinity chromatog. purifn. of proteinaceous materials)

IT 51-67-2, Tyramine 56-12-2, 4-Aminobutyric acid, reactions
56-86-0, L-Glutamic acid, reactions 60-18-4, L-Tyrosine, reactions
60-32-2, 6-Aminocaproic acid 61-54-1, Tryptamine 62-53-3,
Aniline, reactions 64-04-0, Phenethylamine 78-81-9,
Isobutylamine 89-93-0, 2-Methylbenzylamine 95-55-6,
2-Aminophenol 99-05-8, 3-Aminobenzoic acid 100-46-9,
Benzylamine, reactions 104-84-7, 4-Methylbenzylamine
106-89-8, Epichlorohydrin, reactions 107-15-3,

Ethylenediamine, reactions 107-95-9, β -Alanine 108-44-1,
 m-Toluidine, reactions 108-77-0, Cyanuric chloride 109-73-9,
 Butylamine, reactions 123-30-8, 4-Aminophenol 150-13-0,
 4-Aminobenzoic acid 516-06-3, Valine 543-82-8,
 2-Amino-6-methylheptane 822-98-0, 2-Aminonorbornane 1877-77-6,
 3-Aminobenzyl alcohol 2038-03-1, 4-(2-Aminoethyl)morpholine
 2706-56-1, 2-(2-Aminoethyl)pyridine 2834-90-4, 4-Amino-1-naphthol
 2835-99-6, 4-Amino-m-cresol 2836-04-6,
 N,N-Dimethyl-1,3-phenylenediamine 2906-12-9,
 3-Isopropoxypropylamine 3261-62-9, 2-(p-Tolyl)ethylamine
 4403-70-7, 3-Aminobenzylamine 4747-21-1, N-Methylisopropylamine
 7144-05-0, 4-(Aminomethyl)piperidine 7154-73-6,
 1-(2-Aminoethyl)pyrrolidine 7324-05-2, L-Alanineamide
 10420-89-0, (S)-1-(1-Naphthyl)ethylamine 13952-84-6,
 (\pm)-sec-Butylamine 22374-89-6, 3-Amino-1-phenylbutane
 22526-46-1, (S)-3-Methyl-2-butylamine 23356-96-9, (S)-Prolinol
 23357-52-0, (S)-1,2,3,4-Tetrahydro-1-naphthylamine 27578-60-5,
 1-(2-Aminoethyl)piperidine 28292-43-5, 2-Amino-5-methylhexane
 34698-41-4 36489-03-9, 2-Ethylthio(ethylamine) 50541-93-0,
 4-Amino-1-benzylpiperidine 51387-90-7,
 2-(2-Aminoethyl)-1-methylpyrrolidine 627086-11-7, PuraBead 6XL
 711012-19-0

RL: CRT (Combinatorial reactant); RCT (Reactant); CMBI
 (Combinatorial study); ~~RACT (Reactant or reagent)~~

(prepn. of supported multidimensional triazine combinatorial
 libraries for affinity chromatog. purifn. of proteinaceous
 materials)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L276 ANSWER 12 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 140:147237 HCA Full-text

TI Method for producing selective separation membrane excellent in
 anti-fouling stability

IN Koo, Ja-yeong; Kim, Sun-sik; Yoon, Seong-ro; Hong, Son-pyo

PA Saehan Industries, Inc., S. Korea

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004025102	A	20040129	JP 2002-187857	

200206
 27

JP 3860510
GB 2390042

B2 20061220
A 20031231

GB 2002-14603

200206
25

GB 2390042
FR 2843045

B 20061115
A1 20040206

FR 2002-9654

200207
30

FR 2843045

B1 20080725

PRAI DE 2002-10228148

A 20020624 <--

GB 2002-14603

T 20020625 <--

JP 2002-187857

A 20020627 <--

NL 2002-1020950

A 20020627 <--

FR 2002-9654

A 20020730 <--

AB A method is provided for producing selective sepn. membrane (polyamide reverse-osmosis composite membrane) excellent in fouling stability. The method comprises forming a polyamide thin film on a porous support body, and afterwards, performing a hydrophilic coating on the polyamide thin film to produce a hydrophilic polyamide reverse-osmosis composite membrane. The hydrophilic coating is characterized in that an epoxy compd. possessing at least more than two epoxy groups is coated on the polyamide composite membrane, and afterwards, the epoxy compd. is cross-linked to yield a water-insol. polymer.

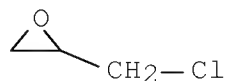
IT 106-89-8D, Epichlorohydrin, reaction products with 1,3,5-tris(2-hydroxyethyl)cyanuric acid, tris(hydroxymethyl)aminomethane, polyvinylalc., polyacrylamide, cellulose, hydroxyethylcellulose, hydroxypropylcellulose, cellulose substituent 110-85-0, Piperazine, reactions 111-40-0, Diethylenetriamine 112-24-3, Triethylenetetramine

RL: RCT (Reactant); RACT (Reactant or reagent)

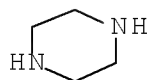
(method for producing selective sepn. membrane excellent in anti-fouling stability)

RN 106-89-8 HCA

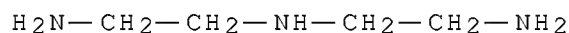
CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



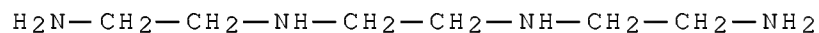
RN 110-85-0 HCA
CN Piperazine (CA INDEX NAME)



RN 111-40-0 HCA
CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



RN 112-24-3 HCA
CN 1,2-Ethanediamine, N1,N2-bis(2-aminoethyl)- (CA INDEX NAME)



IC ICM B01D069-12
ICS B01D061-02; B01D061-14; B01D071-26; B01D071-30; B01D071-42;
B01D071-46; B01D071-56; B01D071-64; B01D071-68; C08J009-36;
C08L077-00
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 48, 61
IT **Polymers**, uses
RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP
(Preparation); USES (Uses)
(halo; method for producing selective sepn. membrane excellent in
anti-fouling stability)
IT Phenolic **resins**, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(novolak, epoxycresol; method for producing selective sepn.
membrane excellent in anti-fouling stability)
IT Phenolic **resins**, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(novolak; method for producing selective sepn. membrane excellent
in anti-fouling stability)
IT **Polymerization**
(surface; method for producing selective sepn. membrane excellent

in anti-fouling stability)

IT Polymers, uses

RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(water-insol.; method for producing selective sepn. membrane excellent in anti-fouling stability)

IT 50-70-4, Sorbitol, reactions 50-99-7, Glucose, reactions
56-81-5, Glycerol, reactions 57-48-7, Fructose, reactions
57-55-6, Propyleneglycol, reactions 69-79-4, Maltose 77-85-0,
1,1,1-Tris(hydroxymethyl)ethane 77-99-6, Trimethylolpropane
80-05-7, Bisphenol A, reactions 80-05-7D, Bisphenol A,
hydrogenated deriv. 80-08-0, Bis(4-aminophenyl)sulfone 80-70-6,
1,1,3,3-Tetramethylguanidine 87-69-4, Tartaric acid, reactions
88-45-9, 2,5-Diaminobenzenesulfonic acid 94-96-2,
2-Ethyl-1,3-hexanediol 99-10-5, 3,5-Dihydroxybenzoic acid
101-77-9, Methylenedianiline 101-90-6, Resorcinoldiglycidylether
106-58-1, 1,4-Dimethylpiperazine ~~106-89-8D~~,
Epichlorohydrin, reaction products with
1,3,5-tris(2-hydroxyethyl)cyanuric acid,
tris(hydroxymethyl)aminomethane, polyvinylalc., polyacrylamide,
cellulose, hydroxyethylcellulose, hydroxypropylcellulose, cellulose
substituent 107-21-1, Ethyleneglycol, reactions 107-35-7,
2-Aminoethanesulfonic acid 107-88-0, 1,3-Butanediol 108-45-2,
1,3-Benzenediamine, reactions 108-46-3, Resorcinol, reactions
108-73-6, Phloroglucinol 108-80-5, Isocyanuric acid
~~110-85-0~~, Piperazine, reactions 111-29-5, 1,5-Pentanediol
~~111-40-0~~, Diethylenetriamine ~~112-24-3~~,
Triethylenetetramine 112-47-0, 1,10-Decanediol 115-77-5,
Pentaerythritol, reactions 123-31-9, Hydroquinone, reactions
126-11-4, Tris(hydroxymethyl)nitromethane 126-30-7,
Neopentylglycol 280-57-9, 1,4-Diazabicyclo(2.2.2)octane
504-63-2, 1,3-Propanediol 526-95-4, Gluconic acid 535-87-5,
3,5-Diaminobenzoic acid 625-69-4, 2,4-Pentanediol 629-11-8,
1,6-Hexanediol 629-30-1, 1,7-Heptanediol 629-41-4,
1,8-Octanediol 928-40-5, 1,5-Hexanediol 929-59-9,
2,2'-(Ethylenedioxy)bis(ethylamine) 1117-86-8, 1,2-Octanediol
1119-86-4, 1,2-Decanediol 1119-87-5, 1,2-Dodecanediol 1477-55-0,
1,3-Benzenedimethanamine 1675-54-3, Bisphenol A diglycidylether
1675-54-3D, Bisphenol A diglycidylether, hydrogenated deriv.
2224-15-9, Ethyleneglycoldiglycidylether 2425-01-6,
Hydroquinonediglycidylether 2425-79-8,
1,4-Butanedioldiglycidylether 2451-62-9,
Tris(2,3-epoxypropyl)isocyanurate 2579-20-6,
1,3-Cyclohexane-bis(methylamine) 2935-44-6, 2,5-Hexanediol
3001-72-7, 1,5-Diazabicyclo(4.3.0)non-5-ene 3030-47-5 3126-63-4,
Pentaerythritoltetraglycidylether 3296-90-0,
Dibromoneopentylglycol 3332-48-7, 1,3-Butanedioldiglycidylether

3416-24-8, Glucosamine 3454-29-3,
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 3937-56-2, 1,9-Nonanediol 4097-89-6, Tris(aminoethyl)amine
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 5026-74-4, N,N-Diglycidyl-4-glycidylloxylaniline 5343-92-0,
 1,2-Pentanediol 5675-51-4, 1,12-Dodecanediol 6674-22-2,
 1,8-Diazabicyclo(5.4.0)undec-7-ene 6920-22-5, 1,2-Hexanediol
 7365-44-8 7517-06-8, 1,5-Pentanedioldiglycidylether 9002-98-6
 9003-47-8, Polyvinylpyridine 9004-57-3, Ethylcellulose
 9004-67-5, Methylcellulose 9012-76-4, Chitosan 13236-00-5,
 Pentaerythritoltriglycidylether 13236-02-7,
 Glyceroltriglycidylether 14307-02-9, Mannosamine 15763-57-2
 16096-31-4, 1,6-Hexanedioldiglycidylether 17342-30-2 17557-23-2,
 Neopentylglycoldiglycidylether 18425-64-4,
 Trimethylolpropanediglycidylether 21799-87-1 24610-19-3,
 1,8-Octanedioldiglycidylether 25322-68-3, Polyethyleneglycol
 25322-69-4, Polypropyleneglycol 26142-30-3,
 Polypropyleneglycoldiglycidylether 26403-72-5,
 Polyethyleneglycoldiglycidylether 28768-32-3,
 4,4'-Methylenebis(N,N-diglycidylaniline) 29256-90-4,
 Diaminocyclohexane 29915-38-6 29953-15-9,
 Dibromoneopentylglycoldiglycidylether 30350-48-2, Triaminobenzene
 30551-89-4, Poly(allylamine) 33908-71-3, Sorbitol diglycidyl ether
 36366-26-4 37237-76-6 40762-73-0, Pentaerythritoldiglycidylether
 41678-38-0 60553-09-5, 1,10-Decanedioldiglycidylether
 64055-71-6, Sorbitoltetraglycidylether 64102-85-8,
 Diglyceroltriglycidylether 68189-43-5 68399-78-0 68399-81-5
 72557-93-8 74911-53-8 77738-93-3 80046-01-1 87257-06-5
 101417-05-4 118549-88-5, Polyglycerolglycidylether 121830-73-7
 125457-87-6 164463-52-9 373609-57-5,
 1,7-Heptanedioldiglycidylether 373609-58-6,
 1,9-Nonanedioldiglycidylether 638128-08-2 638128-11-7
 638128-12-8 638128-13-9 638128-14-0 639007-14-0 652149-93-4
 RL: RCT (Reactant); RACT (Reactant or reagent)

(method for producing selective sepn. membrane excellent in
 anti-fouling stability)

L276 ANSWER 13 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 138:304277 HCA

TI Preparation of 3-phenyl-4,5,6,7-tetrahydropyrazolo[4,3-c]pyridines
 as cathepsin S inhibitors for treating allergies

L276 ANSWER 14 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 136:247576 HCA

TI Preparation of 3-phenyl-4,5,6,7-tetrahydropyrazolo[4,3-c]pyridines
 as cathepsin S inhibitors for treating allergies

L276 ANSWER 15 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 136:71178 HCA Full-text

TI Preparation of bactericidal and adsorptive cotton fibers

AU Wang, Ge-Hui; Song, Zhan-Qian

CS Department of Environmental Science and Engineering, State Key Laboratory of Pollution Control and Resources Reuse, Nanjing University, Nanjing, 210093, Peop. Rep. China

SO Yingyong Huaxue (2001), 18(10), 831-833

CODEN: YIHUED; ISSN: 1000-0518

PB Yingyong Huaxue Bianji Weiyuanhui

DT Journal

LA Chinese

AB Two kinds of bactericidal and adsorptive cotton fibers (BACF-1, BACF-2) were made through epoxidn., amination and quaternization. The test of their bactericidal activity and adsorption capacity tests showed that both functionalized cotton fibers have good adsorption capacity to Cu²⁺ and antibacterial action to staphylococcus aureus and bacilluscoli. They can be regenerated for repeated use after acidification with dil. hydrochloric acid and washing and sterilization with water and 95% alc. successively.

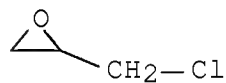
IT 106-89-8, Epichlorohydrin, reactions

RL: RCT (Reactant); RGT (Reagent); RACT (Reactant or reagent)

(cotton fiber treated with; prepn. of bactericidal and adsorptive cotton fibers)

RN 106-89-8 HCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



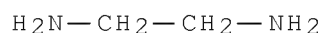
IT 107-15-3, Ethylenediamine, reactions 112-57-2

RL: RGT (Reagent); RACT (Reactant or reagent)

(cotton fiber treated with; prepn. of bactericidal and adsorptive cotton fibers)

RN 107-15-3 HCA

CN 1,2-Ethanediamine (CA INDEX NAME)



RN 112-57-2 HCA
CN 1,2-Ethanediamine, N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]- (CA INDEX NAME)



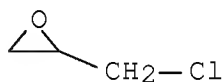
CC 40-2 (Textiles and Fibers)
IT 106-89-8, Epichlorohydrin, reactions
RL: RCT (Reactant); RGT (Reagent); RACT (Reactant or reagent)
(cotton fiber treated with; prepn. of bactericidal and adsorptive cotton fibers)
IT 107-15-3, Ethylenediamine, reactions 112-57-2
RL: RGT (Reagent); RACT (Reactant or reagent)
(cotton fiber treated with; prepn. of bactericidal and adsorptive cotton fibers)
IT 13078-59-6P
RL: RGT (Reagent); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(cotton fiber treated with; prepn. of epoxy amine for prepn. of bactericidal and adsorptive cotton fibers)

L276 ANSWER 16 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 135:226873 HCA
TI Preparation and formulation of azetidines for pharmaceutical use

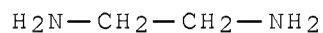
L276 ANSWER 17 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 135:34449 HCA Full-text
TI Polyamine-based resin and paper coating composition from the resin
IN Yamamoto, Satoshi; Kawamura, Akira; Tanikawa, Akira
PA Sumitomo Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2001164495	A	20010619	JP 1999-348886	19991208

JP 4129853 B2 20080806
 PRAI JP 1999-348886 19991208 <--
 AB The resin is prepd. by the reaction of a polyamine of
 alkylenediamine, polyalkylene polyamine, and/or a heterocyclic
 polyamine contg. ≥ 2 primary or sec. amine group; urea; a nonarom. sec.
 monoamine; and a crosslinkable compd. of aldehyde, epichlorohydrin,
 α, ω -dihalo- β -hydrin, polyepoxy, and/or polyisocyanate. Thus, a resin
 was prepd. by the reaction of diethylenetriamine 0.8, urea 2.4,
 dibutylamine 0.08, HCHO 0.8 mol in H₂O.
 IT 106-89-8, Epichlorohydrin, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (crosslinking agents; polyamine-based resin and paper
 coating compn. from the resin)
 RN 106-89-8 HCA
 CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



IT 107-15-3, Ethylenediamine, reactions 111-40-0,
 Diethylenetriamine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (polyamine-based resin and paper coating compn. from
 the resin)
 RN 107-15-3 HCA
 CN 1,2-Ethanediamine (CA INDEX NAME)



RN 111-40-0 HCA
 CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



IC ICM D21H019-44
 ICS C08G073-00; C09D179-04
 CC 42-10 (Coatings, Inks, and Related Products)

Section cross-reference(s): 43

ST polyamide resin binder paper coating; urea formaldehyde amine copolymer coating

IT Aldehydes, reactions
Epoxy resins, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinking agents; polyamine-based resin and paper coating compn. from the resin)

IT Crosslinking agents
Paper
(polyamine-based resin and paper coating compn. from the resin)

IT Polyamines
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyamine-based resin and paper coating compn. from the resin)

IT Coating materials
(water-thinned; polyamine-based resin and paper coating compn. from the resin)

IT 75-13-8D, Isocyanic acid, deriv. 106-89-8, Epichlorohydrin, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinking agents; polyamine-based resin and paper coating compn. from the resin)

IT 50-00-0, Formaldehyde, reactions 57-13-6, Urea, reactions 107-15-3, Ethylenediamine, reactions 111-40-0, Diethylenetriamine 111-92-2, Dibutylamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(polyamine-based resin and paper coating compn. from the resin)

L276 ANSWER 18 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 131:290715 HCA Full-text

TI Process for synthesis of lignin quaternary ammonium salt cation flocculant for water treatment

IN Zhu, Wanpeng; Wu, Zhaohong; Yu, Gang

PA Qinghua University, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
CODEN: CNXXEV

DT Patent

LA Chinese

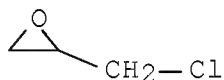
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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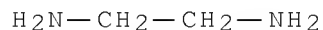
PI	CN 1146999	A	19970409	CN 1996-106784	

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CN 1045450 C 19991006
PRAI CN 1996-106784 19960712 <--
AB The process comprises dissolving 1 part lignin into 10-30 parts solvent to obtain soln. A; adding aldehyde and amine to A under stirring at the ratio of lignin to aldehyde being 1:(1.4-5.6) and the ratio of aldehyde to amine being 1:(0.5-1); adding strong acid catalyst (0-0.02 mol/g lignin) and reacting at 80-120° for 1-10 h; adding alkylate and reacting at 40-100° for 0.5-6 h at the ratio of amine to alkylate being 1:(1-3); and sepg. under reduced-pressure distn. to obtain the product. The 2nd step can be taken place by reacting aldehyde and amine to obtain methylene diamine first, then reacting methylene diamine with lignin. The solvent is selected from EtOH, DMSO, DMF, pyridine, and/or 1,4-dioxane. The amine is selected from ethylene diamine, diethylamine, dimethylamine, divinyl triamine, trivinyl tetramine, N-ethylamine piperazine, and/or piperazine. The alkylate is selected from iodomethane, di-Me sulfate, 1,2-dichloroethane, and/or epichlorohydrin.
IT 106-89-8, reactions 107-15-3, 1,2-Ethanediamine, reactions 110-85-0, Piperazine, reactions 111-40-0 112-24-3 140-31-8, 1-Piperazineethanamine
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); ~~RACT~~ (Reactant or reagent); USES (Uses)
(process for synthesis of lignin quaternary ammonium salt cation flocculant for water treatment)
RN 106-89-8 HCA
CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)

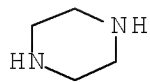


RN 107-15-3 HCA
CN 1,2-Ethanediamine (CA INDEX NAME)



RN 110-85-0 HCA

CN Piperazine (CA INDEX NAME)



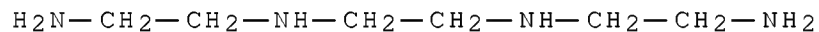
RN 111-40-0 HCA

CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



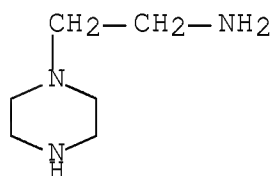
RN 112-24-3 HCA

CN 1,2-Ethanediamine, N1,N2-bis(2-aminoethyl)- (CA INDEX NAME)



RN 140-31-8 HCA

CN 1-Piperazineethanamine (CA INDEX NAME)



IC ICM C08H005-02

CC 60-3 (Waste Treatment and Disposal)

Section cross-reference(s): 25, 61

IT 50-00-0, Formaldehyde, reactions 64-17-5, Ethanol, reactions
67-68-5, Dimethyl sulfoxide, reactions 68-12-2, Dimethylformamide,
reactions 74-88-4, reactions 77-78-1, Dimethyl sulfate
106-89-8, reactions 107-06-2, reactions 107-15-3
, 1,2-Ethanediamine, reactions 109-89-7, Diethylamine, reactions
110-85-0, Piperazine, reactions 110-86-1, Pyridine,
reactions 111-40-0 112-24-3 123-91-1,
1,4-Dioxane, reactions 124-40-3, reactions 140-31-8,

1-Piperazineethanamine 9005-53-2, Lignin, reactions
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or
 chemical process); RCT (Reactant); PROC (Process); ~~RACT~~
 (~~Reactant or reagent~~); USES (Uses)
 (process for synthesis of lignin quaternary ammonium salt cation
 flocculant for water treatment)

L276 ANSWER 19 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 130:332899 HCA Full-text

TI Use of aliphatic polyamines for reducing oxalate

IN Holmes-Farley, Stephen Randall; Mandeville, W. Harry, III

PA Geltex Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9922744	A1	19990514	WO 1998-US22606	199810 26
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	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 5985938	A	19991116	US 1997-964956	199711 05
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	CA 2349620	A1	19990514	CA 1998-2349620	199810 26
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	CA 2349620	C	20080408		
	AU 9913647	A	19990524	AU 1999-13647	199810

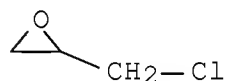
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EP 1044008	A1	20001018	EP 1998-957371		
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EP 1044008	B1	20060104			
R: BE, DE, FR, GB, LU, NL					
JP 2001521902	T	20011113	JP 2000-518676		
					199810
					26
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EP 1645278	A2	20060412	EP 2005-76677		
					199810
					26
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EP 1645278	A3	20071114			
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PT, IE, SI, LT, LV, FI, RO, MK, CY, AL					
TW 585772	B	20040501	TW 1998-87118238		
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US 6177478	B1	20010123	US 1999-359226		
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US 6281252	B1	20010828	US 2000-668874		
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US 20010051660	A1	20011213	US 2001-891720		
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US 6566407	B2	20030520			
US 20040018169	A1	20040129	US 2003-441157		
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PRAI US 1997-964956	A	19971105	<--		
EP 1998-957371	A3	19981026	<--		
WO 1998-US22606	W	19981026	<--		
US 1999-359226	A1	19990722	<--		
US 2000-668874	A1	20000925	<--		
US 2001-891720	A1	20010626	<--		

AB A method is provided for reducing oxalate levels in a patient that includes administering to the patient a therapeutically effective amt. of non-absorbable amine polymers, e.g. a polymer characterized by a repeat unit $[\text{CH}_2\text{CH}((\text{CH}_2)_x\text{NH}_2)]_n$, ($n = \text{pos. integer}$; $x = 0-4$) and salts and copolymers thereof. The invention is useful for reducing a patient's urinary output of oxalate and urinary calculi. Polymer prepn. is also described.

IT 106-89-8, Epichlorohydrin, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (crosslinking agent; polyamines, and prepn. thereof, for reducing oxalate)

RN 106-89-8 HCA

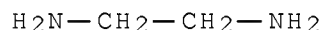
CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



IT 107-15-3, Ethylenediamine, reactions 111-40-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction; polyamines, and prepn. thereof, for reducing oxalate)

RN 107-15-3 HCA

CN 1,2-Ethanediamine (CA INDEX NAME)



RN 111-40-0 HCA

CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



IC ICM A61K031-785

CC 1-10 (Pharmacology)
 Section cross-reference(s): 35

IT 9024-97-9, Oxalate decarboxylase
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(copolymers contg.; polyamines, and prepn. thereof, for reducing oxalate)

IT 106-89-8, Epichlorohydrin, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (crosslinking agent; polyamines, and prepn. thereof, for reducing oxalate)

IT 25034-58-6P, Acrylamide-methylenebisacrylamide copolymer
 69824-22-2P, 2-Acrylamido-2-methylpropanesulfonic acid-methylenebisacrylamide copolymer 70144-13-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (including oxalate decarboxylase; polyamines, and prepn. thereof, for reducing oxalate)

IT 104-78-9DP, reaction products with Me methacrylate-divinylbenzene copolymer 107-15-3DP, Ethylenediamine, reaction products with Me methacrylate-divinylbenzene copolymer
 111-40-0DP, Diethylenetriamine, reaction products with Me methacrylate-divinylbenzene copolymer 306-60-5DP, Agmatine, copolymer reaction products 814-68-6DP, Acryloyl chloride, reaction products with polyethyleneimine 2482-00-0DP, Agmatine sulfate, copolymer reaction products 2582-30-1DP, Aminoguanidine bicarbonate, copolymer reaction products 4097-89-6DP, Tris(2-aminoethyl)amine, copolymer reaction products 9002-98-6DP, reaction products with acryloyl chloride or epichlorohydrin 9017-37-2DP, Methyl methacrylate-divinylbenzene copolymer, reaction products with amines 25610-84-8P, Aziridine-epichlorohydrin copolymer 34369-44-3P, Epichlorohydrin-pentaethylenehexamine copolymer 66410-17-1P, Divinylbenzene-Vinylamine copolymer 71550-12-4P, Poly(allylamine) hydrochloride 95522-45-5P 132460-82-3P, Dimethylaminopropylacrylamide-methylene-bisacrylamide copolymer 152751-57-0P 154245-11-1P 162786-36-9DP, Divinylbenzene-methacryloyl chloride copolymer, agmatine sulfate reaction products 162786-36-9DP, Divinylbenzene-methacryloyl chloride copolymer, amine reaction products 198343-02-1P 198343-03-2P 198343-04-3P 224313-15-9P 224313-20-6DP, reaction products with agmatine 224313-23-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (polyamines, and prepn. thereof, for reducing oxalate)

IT 107-11-9D, Allylamine, derivs., polymers 124-02-7D,

Diallylamine, derivs., polymers 593-67-9D, Vinylamine, derivs., polymers 9003-01-4 9003-01-4D, derivs. 9003-05-8 9003-05-8D, derivs. 26336-38-9 26336-38-9D, derivs. 30551-89-4 30551-89-4D, derivs. 31245-56-4 31245-56-4D, derivs. 51382-06-0 51382-06-0D, crosslinked 52757-95-6 138807-57-5 138807-57-5D, derivs. 157475-96-2 157475-96-2D, crosslinked 198342-67-5 224313-04-6 224313-04-6D, crosslinked
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(polyamines, and prepn. thereof, for reducing oxalate)

IT 5202-78-8P, Vinylacetamide 5335-91-1P, Ethylidenebisacetamide 9017-37-2P, Methyl methacrylate-divinylbenzene copolymer 147898-29-1P 162786-36-9P, Divinylbenzene-methacryloyl chloride copolymer 224313-18-2P 224313-20-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction; polyamines, and prepn. thereof, for reducing oxalate)

IT 60-35-5, Acetamide, reactions 75-07-0, Acetaldehyde, reactions 104-78-9 107-15-3, Ethylenediamine, reactions 111-40-0 306-60-5, Agmatine 814-68-6, Acryloyl chloride 2482-00-0, Agmatine sulfate 2582-30-1, Aminoguanidine bicarbonate 4097-89-6, Tris(2-aminoethyl)amine 6066-82-6, N-Hydroxysuccinimide
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction; polyamines, and prepn. thereof, for reducing oxalate)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L276 ANSWER 20 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 130:67424 HCA

TI Development of migration study methods in compliance with directives of the European Union for studies of migration (and/or content) of low-molecular-weight substances from Polish plastics intended for contact with foods

L276 ANSWER 21 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 128:244737 HCA Full-text

OREF 128:48459a,48462a

TI Cure kinetics of novel tetrafunctional N-glycidyl epoxy resin and their glass fiber-reinforced composite

AU Amin, Kamlesh G.; Patel, Kalpesh J.; Patel, Ranjan G.

CS Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, 388 120, India

SO Iranian Polymer Journal (1997), 6(4), 227-233

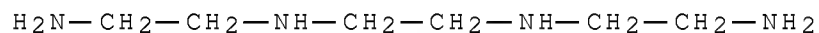
CODEN: IPJOFF; ISSN: 1026-1265

PB Polymer Research Center of Iran

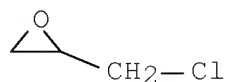
DT Journal
 LA English
 AB The curing reactions of tetrafunctional epoxy resin N,N,N',N'-tetraglycidyl-1,1'-bis[4-(p-aminophenoxy)phenyl]phenylmethane using different amine curing agents are studied by differential scanning calorimetry. The kinetics of the thermal degrdn. of cured epoxy resins are studied by thermogravimetry at a heating rate of 10 °C min-1. The overall activation energy for the curing reactions are obsd. to be in the range 76.0-386.1 kJ.mol-1. The glass fiber-epoxy resin composites are fabricated using the tetrafunctional N-glycidyl epoxy resin with the conventional epoxy resin DGEBA in the ratio 20:80 using different amine curing agents and evaluating for their phys., mech., chem. and elec. properties.
 IT 111-40-0, Diethylenetriamine 112-24-3
 RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
 (cure kinetics of tetrafunctional glycidyl epoxy resin and their glass fiber-reinforced composite)
 RN 111-40-0 HCA
 CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



RN 112-24-3 HCA
 CN 1,2-Ethanediamine, N1,N2-bis(2-aminoethyl)- (CA INDEX NAME)



IT 106-89-8, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (in prepn. of tetraglycidylbis[(aminophenoxy)phenyl]phenylmethane)
 RN 106-89-8 HCA
 CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



CC 37-6 (Plastics Manufacture and Processing)

ST crosslinking kinetics epoxy resin; glass fiber epoxy resin composite

IT Crosslinking kinetics
(cure kinetics of tetrafunctional glycidyl epoxy resin and their glass fiber-reinforced composite)

IT Glass fibers, uses
RL: MOA (Modifier or additive use); USES (Uses)
(cure kinetics of tetrafunctional glycidyl epoxy resin and their glass fiber-reinforced composite)

IT Epoxy resins, preparation
RL: POF (Polymer in formulation); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(cure kinetics of tetrafunctional glycidyl epoxy resin and their glass fiber-reinforced composite)

IT Bending strength
Dielectric constant
Dielectric loss
Electric resistance
Hardness (mechanical)
Shear strength
(of glass fiber-reinforced tetrafunctional glycidyl epoxy resin composite)

IT 80-08-0 101-77-9 111-40-0, Diethylenetriamine
112-24-3 1675-54-3
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(cure kinetics of tetrafunctional glycidyl epoxy resin and their glass fiber-reinforced composite)

IT 204994-41-2P, N,N,N',N'-Tetraglycidyl-1,1'-bis[4-(p-aminophenoxy)phenyl]phenylmethane homopolymer 204994-42-3P, Bisphenol A diglycidyl ether-4,4'-diaminodiphenyl sulfone-N,N,N',N'-tetraglycidyl-1,1'-bis[4-(p-aminophenoxy)phenyl]phenylmethane copolymer
204994-43-4P, Bisphenol A diglycidyl ether-4,4'-diaminodiphenylmethane-N,N,N',N'-tetraglycidyl-1,1'-bis[4-(p-aminophenoxy)phenyl]phenylmethane copolymer
204994-44-5P, Bisphenol A diglycidyl ether-N,N,N',N'-tetraglycidyl-1,1'-bis[4-(p-aminophenoxy)phenyl]phenylmethane-triethylenetetramine copolymer 204994-45-6P, Bisphenol A diglycidyl ether-diethylenetriamine-N,N,N',N'-tetraglycidyl-1,1'-bis[4-(p-aminophenoxy)phenyl]phenylmethane copolymer
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(cure kinetics of tetrafunctional glycidyl epoxy resin
and their glass fiber-reinforced composite)

IT 100-52-7, Benzaldehyde, reactions 106-89-8, reactions
108-95-2, Phenol, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(in prepn. of tetraglycidylbis[(aminophenoxy)phenyl]phenylmethane
)

IT 204994-40-1P, N,N,N',N'-Tetraglycidyl-1,1'-bis[4-(p-
aminophenoxy)phenyl]phenylmethane
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and polymn. of)

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L276 ANSWER 22 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 127:228839 HCA
TI Pharmaceutical agents containing perfluoroalkyl-containing metal
complexes and the use thereof in tumor therapy and intervention al
radiology

L276 ANSWER 23 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 126:314517 HCA
TI Novel affinity ligands and their use

L276 ANSWER 24 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 125:34037 HCA Full-text
OREF 125:6668h,6669a
TI Preparation of soluble combinatorial libraries using soluble
macromolecular supports
IN Janda, Kim; Han, Hyunsoo
PA Scripps Research Institute, USA
SO PCT Int. Appl., 154 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9603418	A1	19960208	WO 1995-US9614	199507 26

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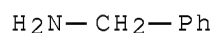
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	MR, NE, SN, TD, TG				
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	PT, SE				
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US 1995-484153	A	19950607	<--		
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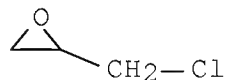
AB Novel sol. combinatorial libraries are prepd., comprising a sol. phase in soln. attached to a core mol., and allowing the improved high-yield and efficient prodn. of sol. combinatorial libraries. Some specific examples of the sol. combinatorial libraries claimed herein comprise one or more of the following: amino acids, α -azetide amino acids, triazine dione mols., γ -lactamtide mols. (constrained peptide mimics), δ -lactamthiotide mols. (constrained peptide mimics), β -lactam nucleus contg. mols., lycoramine alkaloid nucleus contg. mols., β -blocker nucleus mols., oligopeptides, oligosaccharides, oligonucleotides, and arylsulfonamides. The macromol. supports are

selected from polyethylene glycol, polyvinyl alc., polyvinylamine copolymd. with polyvinylpyrrolidine, and derivs. thereof. Further, a split synthesis technique for generating libraries of combinatorial mols. employs a biphasic macromol. support which is sol. during the pooling, splitting, and coupling steps but which is insol. during the washing step. The use of a biphasic macromol. support in its insol. phase significantly enhances the efficiency and performance of the washing step. Thus, a library of 8 tetrasaccharides (e.g. I, II, and III), useful as antigenic markers which distinguishes fetal erythrocytes from adult cells (no data), were prepd. by the split synthesis technique involving sequential coupling of a library of polyethylene glycol monomethyl ether-bound glucose and galactose derivs. (IV and V; R = MeO-PEG-O2CCH2CH2CO, wherein PEG = polyethylene glycol) (prepn. given) with (A) galactosamine and glucosamine derivs. (VI and VII) (prepn. given), (B) glucose and galactose derivs. IV and V (R = H) (prepn. given), and (C) galactosamine deriv. VI.

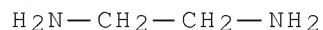
IT 100-46-9, Benzylamine, reactions 106-89-8,
 reactions 107-15-3, 1,2-Ethanediamine, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of sol. combinatorial libraries using sol. macromol.
 supports)
 RN 100-46-9 HCA
 CN Benzenemethanamine (CA INDEX NAME)



RN 106-89-8 HCA
 CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



RN 107-15-3 HCA
 CN 1,2-Ethanediamine (CA INDEX NAME)



IC ICM C07H021-00
ICS C07K001-04
CC 33-4 (Carbohydrates)
Section cross-reference(s): 1, 26, 34
IT 50-99-7, D-Glucose, reactions 56-40-6, Glycine, reactions
59-23-4, D-Galactose, reactions 60-18-4, Tyrosine, reactions
61-90-5, Leucine, reactions 62-53-3, Aniline, reactions 63-91-2,
Phenylalanine, reactions 66-84-2, D-Glucosamine hydrochloride
67-64-1, 2-Propanone, reactions 67-66-3, Chloroform, reactions
69-65-8, D-Mannitol 74-88-4, Methyl iodide, reactions 75-29-6,
2-Chloropropane 75-44-5, Phosgene 78-77-3,
1-Bromo-2-methylpropane 78-81-9, Isobutylamine 100-39-0, Benzyl
bromide 100-44-7, Benzyl chloride, reactions 100-46-9,
Benzylamine, reactions 106-89-8, reactions
107-15-3, 1,2-Ethanediamine, reactions 108-24-7, Acetic
anhydride 108-30-5, Succinic anhydride, reactions 108-95-2,
Phenol, reactions 115-11-7, Isobutylene, reactions 298-12-4,
Glyoxalic acid 302-01-2, Hydrazine, reactions 504-29-0,
2-Pyridylamine 621-84-1, Benzyl carbamate 767-15-7,
2-Amino-4,6-dimethylpyrimidine 771-61-9, Pentafluorophenol
943-45-3, 2-Phenoxyisobutyric acid 1125-88-8, Benzaldehyde
dimethyl acetal 1772-03-8, D-Galactosamine hydrochloride
2488-15-5 4530-20-5 6752-38-1, 4-(Chlorosulfonyl)phenyl
isocyanate 6908-41-4, Methyl 4-(hydroxymethyl)benzoate
7664-41-7, Ammonia, reactions 13139-15-6 13734-34-4
24424-99-5, Di-tert-butyl dicarbonate 27079-92-1, 4-Hydroxybenzyl
bromide 47689-67-8 86060-81-3 90719-32-7 177797-26-1
177797-65-8 177797-66-9 177797-67-0 177797-68-1 177797-91-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of sol. combinatorial libraries using sol. macromol.
supports)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L276 ANSWER 25 OF 35 HCA COPYRIGHT 2009 ACS on STN
AN 124:194327 HCA Full-text
OREF 124:35679a,35682a
TI Crosslinked **polymers** for removing bile salts from a
patient
IN Mandeville, W. Harry, III; Holmes-Farley, Stephen Randall
PA Geltex Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 73 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 14

	PATENT NO. ----- -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
PI	WO 9534588	A1	19951221	WO 1995-US6542	199505 24
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5624963	A	19970429	US 1994-258477	199406 10
	AU 9525560	A	19960105	AU 1995-25560	199505 24
	AU 694777	B2	19980730		
	EP 764177	A1	19970326	EP 1995-919914	199505 24
	EP 764177	B1	20010912		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 10501264	T	19980203	JP 1995-502188	199505 24
	RU 2146266	C1	20000310	RU 1996-124822	199505 24
	AT 205508	T	20010915	AT 1995-919914	199505 24
	HK 1001611	A1	20041210	HK 1998-100531	199801 21
PRAI	US 1994-258477	A	19940610		

US 1993-71564 B2 19930602 <--
WO 1995-US6542 W 19950524 <--

AB A method for removing bile salts from a patient by ion exchange involves administering to the patient a therapeutically effective amt. of ≥ 1 highly crosslinked polymers characterized by a repeat unit $[\text{CH}_2\text{C}(\text{R}_1)(\text{M})]_n$ [$n = \text{integer}$; $\text{R}_1 = \text{H}, \text{C}_1\text{-C}_8 \text{ alkyl}$; $\text{M} = \text{C}(\text{O})\text{ZR}_2, \text{ZR}_2$; $\text{Z} = \text{O}, \text{NR}_3, \text{S}, (\text{CH}_2)_m$; $m = 0\text{-}10$; $\text{R}_3 = \text{H}, \text{C}_1\text{-C}_8 \text{ alkyl}$; $\text{R}_2 = (\text{CH}_2)_p\text{N}(\text{R}_4)(\text{R}_5), (\text{CH}_2)_p\text{N}^+(\text{R}_4)(\text{R}_5)(\text{R}_6)$; $p = 0\text{-}10$; $\text{R}_4, \text{R}_5, \text{R}_6 = \text{H}, \text{C}_1\text{-C}_8 \text{ alkyl, aryl}$] or copolymer thereof, the polymers being non-toxic and stable once ingested. Polymer prepn. is described. Polymers of the invention were efficacious in removing bile salts from artificial intestinal fluid.

IT 106-89-8, reactions 108-00-9 110-85-0,

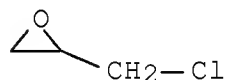
Piperazine, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(crosslinked polymer prepn. for removing bile salts from a patient)

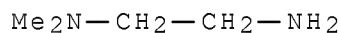
RN 106-89-8 HCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



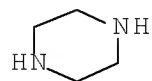
RN 108-00-9 HCA

CN 1,2-Ethanediamine, N1,N1-dimethyl- (CA INDEX NAME)



RN 110-85-0 HCA

CN Piperazine (CA INDEX NAME)



IC ICM C08F220-34

ICS C08F220-60; A61K031-785; A61K031-795

CC 1-10 (Pharmacology)
 Section cross-reference(s): 35

ST bile salt removal crosslinked polymer prepn

IT Intestine
 Ion exchangers
 (crosslinked polymer prepn. for removing bile salts
 from a patient)

IT Bile salts
 RL: REM (Removal or disposal); PROC (Process)
 (crosslinked polymer prepn. for removing bile salts
 from a patient)

IT Polymers, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (crosslinked; crosslinked polymer prepn. for removing
 bile salts from a patient)

IT Alkylation
 (agents, crosslinked polymer prepn. for removing bile
 salts from a patient)

IT 60-35-5, Acetamide, reactions 75-31-0, Isopropylamine, reactions
 106-89-8, reactions 108-00-9 110-85-0,
 Piperazine, reactions 629-27-6, 1-Iodooctane 814-68-6, Acryloyl
 chloride 920-46-7 3033-77-0, Glycidyltrimethylammonium chloride
 9002-98-6 30030-25-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (crosslinked polymer prepn. for removing bile salts
 from a patient)

IT 2210-25-5P 5202-78-8P 5335-91-1P, Ethylidenebisacetamide
 26204-99-9P 28384-61-4P, n-Butylmethacrylamide 28408-65-3P,
 Poly(vinylacetamide) 44986-83-6P 50325-49-0P 168270-38-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (crosslinked polymer prepn. for removing bile salts
 from a patient)

IT 106-89-8DP, reaction products with poly(ethyleneimine) 629-27-6DP,
 1-Iodooctane, reaction products with crosslinked polymers
 9002-98-6DP, reaction products with epichlorohydrin 26336-38-9P,
 Poly(vinylamine) 100236-64-4DP, reaction products with
 1-iodo-octane 100236-64-4P 127339-84-8DP, reaction products with
 1-iodo-octane 127339-84-8P 132460-82-3P 146894-57-7P
 160949-80-4P 160949-85-9P 174490-56-3P 174490-57-4P
 174490-58-5P 174490-59-6P 174490-60-9P 174490-61-0P
 174490-62-1P 174490-63-2P 174490-64-3P 174490-65-4P
 174490-66-5P 174490-67-6P 174490-68-7P 174490-69-8P
 174490-70-1P 174490-71-2P 174490-72-3P 174490-73-4P
 174490-74-5P 174490-75-6P 174490-76-7P 174490-78-9P
 174490-79-0P 174490-81-4P 174490-82-5P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL

(Biological study); PREP (Preparation); USES (Uses)
(crosslinked polymer prepn. for removing bile salts
from a patient)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L276 ANSWER 26 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 117:191427 HCA

TI Functionalization of silica and its use as a catalyst: application
of the modified silica for several nucleophilic reactions

L276 ANSWER 27 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 107:133910 HCA Full-text

OREF 107:21621a,21624a

TI Diquaternary ammonium salts, their preparation and their use as
textile finishing agents

IN Topfl, Rosemarie; Abel, Heinz; Binz, Jorg

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	
PI	EP 221855	A2	19870513	EP 1986-810499	198611 03
				<--	
	EP 221855	A3	19880511		
	EP 221855	B1	19900711		
	R: CH, DE, ES, FR, GB, IT, LI				
	ZA 8608483	A	19870624	ZA 1986-8483	198611 07
				<--	
	JP 62174042	A	19870730	JP 1986-264917	198611 08
				<--	
	JP 63028417	B	19880608		
	US 4906413	A	19900306	US 1988-270378	198811 10
				<--	
PRAI	CH 1985-4801	A	19851108	<--	

US 1986-925059 B1 19861030 <--

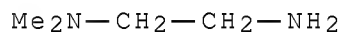
AB H43C21COQ1A1N+R1R2Z1N+R3R4A2Q2COC21H43 3-n(Y1)n- [I; A1, A2 = C2-5 alkylene; Q1, Q2 = NH, O; R1, R2, R3, R4 = alkyl, hydroxy-, alkoxyalkyl with C1-4 in each alkyl; (Y1)n- = anion of a strong acid; Z1 = OH-substituted C3-24 alkylene with optional O interruption; n = 1, 2], useful as textile auxiliaries, were prepd. by reaction of 1 mol H43C21COQ1A1NR1R2 and 1 mol H43C21COQ2A2NR3R4 with 1 mol X1Z'X2 [X1 = epoxy group, X2 = epoxy group or movable halo; Z' = C1-20 alkylene (un)substituted with OH and optionally with O interrupter; when X2 = epoxy, Z' = bond] in the presence of a strong acid H+n(Y1)n-. Behenic acid and Me2NCH2CH2NH2 reacted to give C21H43CONH(CH2)2NMe2 which was treated with concd. HCl in H2O and Me2CHOH, then with epichlorohydrin to give [C21H43CONH(CH2)2N+Me2CH2]2CHOH 2Cl-. Several examples involving treatment of textiles with I were given.

IT 108-00-9 109-55-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation by, of behenic acid)

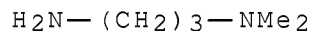
RN 108-00-9 HCA

CN 1,2-Ethanediamine, N1,N1-dimethyl- (CA INDEX NAME)



RN 109-55-7 HCA

CN 1,3-Propanediamine, N1,N1-dimethyl- (CA INDEX NAME)

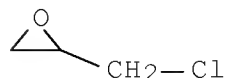


IT 106-89-8, Epichlorohydrin, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with substituted behenamides)

RN 106-89-8 HCA

CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



IC ICM C07C103-54
 ICS C07C093-187; D06M013-46
 CC 23-18 (Aliphatic Compounds)
 Section cross-reference(s): 40
 IT **Textiles**
 (finishing agents for, behenoyl diquaternary ammonium
 compds.)
 IT Quaternary ammonium compounds, preparation
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (di-, behenoyl, prepn. of, as textile finishing
 agents)
 IT 100-36-7 108-00-9 109-55-7 121-05-1
 53369-71-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (amidation by, of behenic acid)
 IT 106-89-8, Epichlorohydrin, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with substituted behenamides)

L276 ANSWER 28 OF 35 HCA COPYRIGHT 2009 ACS on STN
 AN 105:78646 HCA
 TI 1-Aryloxy-3-(substituted alkylamino)-2-propanols

L276 ANSWER 29 OF 35 HCA COPYRIGHT 2009 ACS on STN
 AN 98:215838 HCA
 TI Isoprenyl amine derivatives and their pharmaceutical compositions

L276 ANSWER 30 OF 35 HCA COPYRIGHT 2009 ACS on STN
 AN 97:39448 HCA
 TI Determination of the polycondensation reaction heat in dynamic
 conditions

L276 ANSWER 31 OF 35 HCA COPYRIGHT 2009 ACS on STN
 AN 93:186265 HCA
 TI Antidepressant activity of cyclohexylphenoxymorpholines

L276 ANSWER 32 OF 35 HCA COPYRIGHT 2009 ACS on STN
 AN 87:70829 HCA
 TI Substituted phenoxy propanol diamines and amino alcohol detergent
 additives for fuels and mineral oils

L276 ANSWER 33 OF 35 HCA COPYRIGHT 2009 ACS on STN
 AN 86:120879 HCA Full-text
 OREF 86:19083a,19086a
 TI Polyamines
 IN Witzel, Bruce E.; Grier, Nathaniel; Dybas, Richard A.; Strelitz,
 Robert A.

PA Merck and Co., Inc., USA
 SO Ger. Offen., 57 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO. ----- -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
PI	DE 2617672	A1	19761111	DE 1976-2617672	197604 23
	US 4049417	A	19770920	<-- US 1976-664612	197603 08
	NO 7601279	A	19761029	<-- NO 1976-1279	197604 13
	NO 142259	B	19800414	<--	
	NO 142259	C	19800723		
	SE 7604330	A	19761029	SE 1976-4330	197604 13
	SE 434635	B	19840806	<--	
	SE 434635	C	19841115		
	DK 7601725	A	19761029	DK 1976-1725	197604 14
	NL 7603981	A	19761101	<-- NL 1976-3981	197604 14
	IL 49437	A	19801026	<-- IL 1976-49437	197604 19
	GB 1499056	A	19780125	<-- GB 1976-16374	197604 22
	CA 1083607	A1	19800812	<-- CA 1976-251250	197604

22

FR 2309511 A1 19761126 <--
FR 1976-12294

197604
26

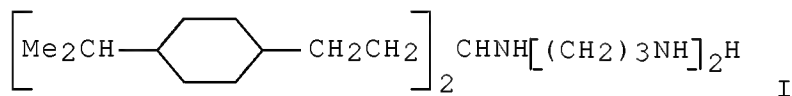
CH 618957 A5 19800829 <--
CH 1976-5293

197604
27

JP 51128951 A 19761110 <--
JP 1976-47908

197604
28

JP 61010458 B 19860329 <--
PRAI US 1975-572592 A 19750428 <--
GI



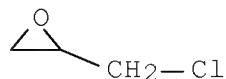
AB Algicidal, bactericidal, and fungicidal (no data) polyamines (16 compds.), such as I, were prepd. Thus, 1,5-bis(4-isopropylcyclohexyl)-3-pentanone was prepd. by treating β -pinene with Ac₂O, reducing 3-(4-isopropylcyclohexenyl)propionic acid, treating 3-(4-isopropylcyclohexyl)propionic acid with Fe, and treating the resulting ketone with HN[(CH₂)₃NH₂]₂ to give I.

IT 106-89-8, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with cyclohexanebis(methylamine))

RN 106-89-8 HCA

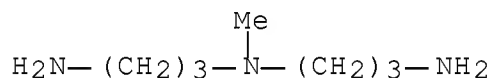
CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



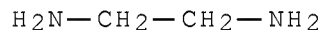
IT 56-18-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with cyclohexylalkanones)
RN 56-18-8 HCA
CN 1,3-Propanediamine, N1-(3-aminopropyl)- (CA INDEX NAME)



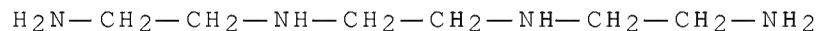
IT 105-83-9 107-15-3, reactions 112-24-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dicyclohexylalkanones)
RN 105-83-9 HCA
CN 1,3-Propanediamine, N1-(3-aminopropyl)-N1-methyl- (CA INDEX NAME)



RN 107-15-3 HCA
CN 1,2-Ethanediamine (CA INDEX NAME)



RN 112-24-3 HCA
CN 1,2-Ethanediamine, N1,N2-bis(2-aminoethyl)- (CA INDEX NAME)



IC C07C087-14
CC 24-5 (Alicyclic Compounds)
IT 96-26-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation by, of triazanone deriv.)
IT 106-89-8, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with cyclohexanebis(methylamine))
IT 56-18-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with cyclohexylalkanones)

IT 105-83-9 107-15-3, reactions 109-76-2

112-24-3 616-29-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dicyclohexylalkanones)

L276 ANSWER 34 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 84:121718 HCA

TI Durable softening and water repellents. II. Syntheses of
1,2-disubstituted imidazoline compounds

L276 ANSWER 35 OF 35 HCA COPYRIGHT 2009 ACS on STN

AN 81:51056 HCA Full-text

TI Diester-amine adducts as fabric softeners

IN Schaefer, Paul; Ibrahim, Jutta; Gysin, Hanspeter

PA Ciba-Geigy A.-G.

SO Ger. Offen., 63 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

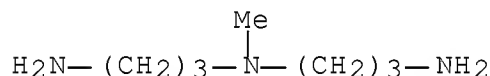
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2341045	A1	19740307	DE 1973-2341045	197308 14
				<--	
	CH 575909	A5	19760531	CH 1972-12348	197208 21
				<--	
	ZA 7305394	A	19740731	ZA 1973-5394	197308 08
				<--	
	AU 7359077	A	19750213	AU 1973-59077	197308 09
				<--	
	NL 7311206	A	19740225	NL 1973-11206	197308 14
				<--	

US 3979442	A	19760907	US 1973-388525	197308 15
BE 803775	A1	19740220	<-- BE 1973-134723	197308 20
FR 2196992	A1	19740322	<-- FR 1973-30213	197308 20
GB 1419154	A	19751224	<-- GB 1973-39341	197308 20
IT 1002508	B	19760520	<-- IT 1973-52080	197308 20
AT 7307234	A	19761215	<-- AT 1973-7234	197308 20
AT 338224 SU 561507	B A3	19770810 19770605	<-- SU 1973-1959053	197308 20
JP 49057196	A	19740603	<-- JP 1973-93007	197308 21
JP 52047075	B	19771130	<--	
PRAI CH 1972-12348	A	19720821	<--	
CH 1973-11303	A	19730803	<--	
AB	<p>C12-22 alkyl esters of maleic anhydride or fumaric or itaconic acids were treated with di-, tri-, or pentaamines, optionally contg. OH groups, to give title adducts, which were optionally treated with epichlorohydrin [106-89-8] or propylene oxide [75-56-9], and used as fabric softeners in a quaternary ammonium or acid salt form. Thus, dioleoyl maleate [105-73-7] was treated with N,N-bis(3-aminopropyl)methylamine [105-83-9] to give diester-amine adduct (I) [52031-38-6] which was mixed with water and HCO2H to give a stable colorless emulsion contg. I salt, that increased the softness of cotton tricot and sponge cloth 4 and 3.5 times, resp., that of untreated fabric.</p>			

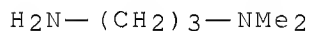
IT 112-57-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with dioleoyl maleate, in fabric softener manuf.)
 RN 112-57-2 HCA
 CN 1,2-Ethanediamine, N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]- (CA INDEX NAME)



IT 105-83-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with fatty acid esters of maleic acid, in fabric softener manuf.)
 RN 105-83-9 HCA
 CN 1,3-Propanediamine, N1-(3-aminopropyl)-N1-methyl- (CA INDEX NAME)



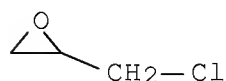
IT 109-55-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with fatty esters of maleic acid, in fabric softener manuf.)
 RN 109-55-7 HCA
 CN 1,3-Propanediamine, N1,N1-dimethyl- (CA INDEX NAME)



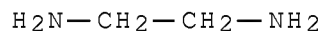
IT 111-40-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with fatty esters of unsatd. diacids, in fabric softener manuf.)
 RN 111-40-0 HCA
 CN 1,2-Ethanediamine, N1-(2-aminoethyl)- (CA INDEX NAME)



IT 106-89-8, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (with diethylenetriamine-dioleyl maleate adduct, in fabric
 softener manuf.)
 RN 106-89-8 HCA
 CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



IT 107-15-3, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (with fatty esters of maleic acid, in fabric softener manuf.)
 RN 107-15-3 HCA
 CN 1,2-Ethanediamine (CA INDEX NAME)



IC C07C; D06M
 CC 39-10 (Textiles)
 Section cross-reference(s): 23
 IT DL-Aspartic acid, N,N'-(iminodi-2,1-ethanediyl)bis-, acetate, alkyl
 alkenyl esters
 DL-Aspartic acid, N,N'-(iminodi-2,1-ethanediyl)bis-, formate, alkyl
 alkenyl esters
 DL-Aspartic acid, N,N'-1,2-ethanediylbis-, dimethyl phosphite, alkyl
 alkenyl esters
 DL-Aspartic acid, N,N'-1,2-ethanediylbis-, formate, alkyl alkenyl
 esters
 DL-Aspartic acid, N,N'-[(methylimino)di-3,1-propanediyl]bis-,
 formate, alkyl alkenyl esters
 DL-Aspartic acid, N,N'-[[(2-hydroxy-1-methylethyl)imino]di-2,1-
 ethanediyl]bis[N-(2-hydroxy-1-methylethyl)-, formate, alkyl
 alkenyl esters
 Formic acid, compd. with
 2,2'-[iminobis(2,1-ethanediyliminomethylene)]bis[butanedioic
 acid], alkyl alkenyl esters

Formic acid, compd. with
N,N'-(iminodi-2,1-ethanediyl)bis[DL-aspartic acid], alkyl alkenyl
esters

Formic acid, compd. with
N,N'-1,2-ethanediylbis[DL-aspartic acid], alkyl alkenyl esters

Formic acid, compd. with
N,N'-[(methylimino)di-3,1-propanediyl]bis[DL-aspartic acid],
alkyl alkenyl esters

Formic acid, compd. with
N,N'-[[(2-hydroxy-1-methylethyl)imino]di-2,1-ethanediyl]bis[N-(2-
hydroxy-1-methylethyl)-DL-aspartic acid], alkyl alkenyl esters

Formic acid, compd. with
N-[3-(dimethylamino)propyl]-DL-aspartic acid, alkyl alkenyl
esters

Phosphorous acid, dimethyl ester, compd. with
N,N'-1,2-ethanediylbis[DL-aspartic acid], alkyl alkenyl esters

RL: USES (Uses)

(softening agents, for textiles)

IT 100-36-7 112-57-2 616-29-5 7803-57-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with dioleyl maleate, in fabric softener manuf.)

IT 105-83-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with fatty acid esters of maleic acid, in fabric
softener manuf.)

IT 109-55-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with fatty esters of maleic acid, in fabric
softener manuf.)

IT 111-40-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with fatty esters of unsatd. diacids, in fabric
softener manuf.)

IT 75-56-9, reactions 106-89-8, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(with diethylenetriamine-dioleyl maleate adduct, in fabric
softener manuf.)

IT 107-15-3, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(with fatty esters of maleic acid, in fabric softener manuf.)